DTSC EVALUATION OF SOIL SAMPLING AT WEI DECEMBER 2011

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DEPARTMENT OF TOXIC SUBSTANCES CONTROL

Enforcement and Emergency Response Program

Brownfields and Environmental Restoration Program

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BACKGROUND

Western Environmental Inc. (WEI) is a soil recycling facility operating under a permit issued by the Cabazon Band of Mission Indians (CBMI). The CBMI permit authorizes WEI to carry out remediation of solid, semi-solid and liquid wastes not considered hazardous under the Resource Conservation and Recovery Act (RCRA). The facility is under the regulatory responsibility of CBMI and the United States Environmental Protection Agency (USEPA). Because of California's more stringent hazardous waste regulations, some of the contaminated wastes treated at WEI fall within the definition of California hazardous waste. The Department of Toxic Substances Control (DTSC) has undertaken an Evaluation Survey of WEI operations to determine how it can meet California standards for permitted hazardous waste treatment facilities. The Evaluation Survey (DTSC, 2012) consisted of a visual inspection of site facilities, review of documents and interviews with WEI personnel.

DTSC and WEI have agreed on a joint effort to sample the existing soil stockpiles as part of DTSC's evaluation survey, as well as in response to public concerns about potential health impacts to surrounding communities, and the safety of post-treatment soil leaving the facility. Under the agreement, DTSC would establish the Scope of Work (SOW) for the sampling and WEI would prepare a Sampling and Analysis Plan (SAP) based on the SOW. WEI would undertake the sampling and analysis in accordance with the SAP, while DTSC would oversee the sampling and collect a limited number of duplicate samples for analyses at its own laboratory. DTSC also agreed to collect some offsite soil samples in response to WEI's concern that windblown soil may be impacting their stockpiles. The sampling of soil stockpiles was conducted by WEI personnel on December 14 through 16, 2011 with DTSC representatives present to observe and collect duplicate samples. DTSC conducted the offsite sampling on February 7, 2012 attended by a CBMI representative and a WEI representative who also collected duplicate samples.

This report is DTSC's independent evaluation of soil sampling data consisting of analytical results provided by WEI on March 8, 2012, the results of duplicate samples collected by DTSC, and the results of offsite samples collected by DTSC. WEI has also prepared a report of the sampling, as required by the SOW, and the report contains WEI's interpretation of the data, and their perspective about the conduct of their operations. DTSC and WEI will be holding discussions about these matters as part of the overall negotiation for implementing California requirements for hazardous waste facilities.

OBJECTIVES FOR SAMPLING OF ONSITE SOILS

The SOW defined the main objectives of the sampling as follows:

1. Characterize the treated soil stockpile to determine whether it exceeds hazardous criteria and therefore poses a risk to human health for its intended use at commercial-industrial settings.

2. Verify the nature of untreated soil stockpiles and their classification as hazardous or non-hazardous based on California hazardous waste criteria.

3. Allow for comparison between untreated and treated soils as a measure of the effectiveness of WEI's treatment process.

The first objective is driven by the concern that the treated soils could potentially be used in various communities in California under the expectation that they are safe for human exposure. WEI indicated to DTSC that the treated soils are intended to be safe for commercial-industrial applications. However, previous sampling efforts conducted by USEPA evaluated the treated soils only with regard to federal hazardous waste criteria, but not for human health criteria. Furthermore, sampling for human health evaluation requires that the soil be characterized within accepted standards of statistical confidence. This sampling effort is intended to address this need to evaluate the safety of the soils for human exposure within accepted standards of statistical confidence.

The second objective is meant to determine the accuracy of WEI's classification of incoming soils. WEI has indicated that incoming/untreated soils are generally subdivided into California-hazardous (approximately 20%) and non-hazardous waste soil (about 80%). For California-hazardous soils, WEI's first goal of treatment is to bring chemical concentrations down to non-hazardous level before they are further treated to below human health risk levels. Thus it is essential that the classification is accurate at the outset so the proper treatment process is applied. Since these untreated soils do not leave the facility in their existing state, human risk is restricted to direct contact by onsite workers and fugitive dust that may escape from the site. The sampling of untreated soil is a random verification of waste classification based on a limited number of samples.

The third objective, evaluating treatment effectiveness, is constrained by the fact that while the sampling of treated soils aims for full characterization (i.e., within accepted levels of statistical confidence), the sampling of untreated soil is limited to random verification. This disparity in representativeness prevents a meaningful comparison of the two data sets. A proper evaluation of treatment effectiveness will require before-and-after treatment comparison of chemical concentrations for a particular batch of soil. However, this was not possible under the three-day scope of this sampling because WEI's treatment process is typically a multi-phase process that lasts much longer than the three days available. In addition, before-and-after comparisons are best done for untreated soils that are classified as California-hazardous because of their higher initial concentrations. However, it turned out that none of the California-hazardous soils remained in the untreated stockpiles because WEI had stopped accepting hazardous soils since April 2011. The disparity in representativeness, lack of before-and-after

treatment comparison, and absence of untreated California-hazardous soils all prevent a conclusive evaluation of the treatment effectiveness. Thus, this third objective was not met, but is restricted to observing trends and patterns in the data.

SAMPLING PARAMETERS

Based on the above objectives, the SOW established the following parameters for the soil sampling activity:

1. Data Quality Objectives:

For the treated soils, data quality should be adequate for determining if the chemical nature of the soil poses a risk to human health. WEI has indicated that outgoing treated soil is intended primarily for commercial/industrial applications, but that there have been instances when it was treated for residential application on CBMI land. Since the residential criterion is more protective, the SOW required that treated soil be analyzed at detection and reporting limits below residential human health screening thresholds. For the purpose of this study, the human health screening standards were initially specified as the California Human Health Screening Levels (CHHSLs) and the EPA Region 9 Regional Screening Levels (RSLs) as specifically discussed in the text. In some cases, DTSC agreed to use alternative threshold values such as the Southern California background value for arsenic, the DTSC remedial goal for dioxin, and the USEPA Regional Screening Level for PCB.

For untreated soil, the data quality should be adequate for determining the chemical nature of the soil for comparison with California and federal hazardous waste criteria. Furthermore, since one of the objectives is to allow for comparison between treated and untreated soils, the same detection and reporting limits should be used for analyses of both groups of soil.

2. Target Constituents:

Since the principal objective is to determine if the treated soils pose a risk to human health to communities where these soils may be used, a broad range of contaminants that may have been present in the soil prior to treatment was evaluated. Additionally, to allow for comparison between treated and untreated soils, the same list of target constituents shall be used for both. The target constituents are as follows:

Volatile Organic Compounds
Semivolatile Organic Compounds
Polychlorinated Biphenyls
Organochlorine Pesticides
Cyanide
Mercury
pH

Total metals
Hexavalent Chromium
Polycyclic Aromatic Hydrocarbons
Dioxins and Furans

Because of the high cost of dioxin analysis, the SOW allowed for dioxin analysis of only 20 % of the samples.

To evaluate the quality of hazardous waste classification, the SOW provided testing for the Toxicity Characteristic Leaching Potential, Total Threshold Limit Concentration, and Soluble Threshold Limit Concentration Waste Extraction Test for selected samples.

3. Representative Characterization of Treated Soil Stockpile:

To ensure that the calculated mean concentration of the treated soil stockpile is representative of the true mean concentration, the SOW utilized procedures described by SW-846 Chapter 9. In accordance with these procedures, the SOW required random sampling of the stockpile to ensure accuracy, taking into account its three-dimensional configuration. In consultation with WEI, a grid system was developed that allowed for equal distribution of sampling points throughout the entire volume of the stockpile.

To ensure an acceptable level of precision, the SOW specified the appropriate number of samples based on procedures described in SW-846. The procedure involved calculating a minimum number of samples for a constituent as a function of its variance, the confidence level (95% as required for human health risk assessment), and the difference between the estimated mean value and the relevant threshold value. To determine the variance and estimated mean, DTSC utilized previous sampling data from USEPA and WEI. The same data also allowed identification of the sensitive constituents, i.e., those that cluster around the threshold value and thus requiring the most number of samples to achieve confidence in the precision. Based on these calculations, and allowing for adjustment due to uncertainties, DTSC recommended that 22 samples be collected from the treated stockpile.

4. Verification Sampling of Untreated Soil Stockpile:

Unlike the treated soil, the purpose for sampling the untreated soil is not for representative characterization, but random verification of their classification with respect to California and federal hazardous waste criteria. As noted earlier, full characterization is not warranted because these soils are already acknowledged to be unsuitable for human exposure, and they are not leaving the facility. Because of this limited objective, DTSC agreed to a minimum of eight.

OFFSITE AMBIENT SAMPLING

DTSC agreed to collect a limited number of offsite soil samples in response to concerns by WEI that ambient dioxins in surrounding areas could affect their soil stockpiles through wind processes. DTSC selected three locations northwest and generally upwind of the WEI facility (based on local wind patterns), and a fourth location adjacent to and southwest of the facility. DTSC also decided to use locations that are not known source areas of dioxin so the results reflect ambient (or average) conditions in the area. This is to allow for differentiation between ambient local conditions and potential dioxin that may be intrinsic to WEI soils. In addition, DTSC decided to collect only surface soils (0-6 inches deep) because these are more likely to be entrained by wind, and their concentrations are likely to be indicative of airborne dust concentrations.

It should be clarified that offsite soils do not represent “background” for WEI soils in the standard meaning of the term for site cleanups. WEI is a soil recycling and treatment center for soils originating from various contaminated sites throughout California, and the proper standard for evaluating its treated soils is not the local “background” but accepted human health values such as the California Human Health Screening Levels (CHHSLs) and the EPA Region 9 Regional Screening Levels (RSLs) because these soils are released for reuse in various California communities.

Because WEI’s incoming soils originate from contaminated sites throughout California, DTSC considers it essential that outgoing treated soils be screened for all potential contaminants, including dioxin, before they are transferred to California communities. Furthermore, since none of WEI’s existing treatment technologies are designed to remediate dioxin in the soils, any preexisting dioxin is likely to move into the treated stockpile unless the soil is specifically treated for it. In fact, one of the concerns is that the thermal desorption process (although this unit was not operating at the time of this evaluation) could result in the generation of dioxin if chlorinated compounds are burned.

SOIL STOCKPILE SAMPLING IMPLEMENTATION

The sampling of the soil stockpiles commenced on December 14, 2011 and continued through December 16, 2011. Alfredo Zanoria and Greg Neal of DTSC’s Geological Services Branch were present to observe the sampling and collect duplicate samples. In the course of the sampling DTSC and WEI made mutually-agreed minor changes to the sampling plan in response to unexpected site conditions. Most notable of the agreed changes were: a) change in equipment from drilling rig to excavator for collecting samples at the thickest portions of the stockpile, and b) reduction in the number of samples from the untreated stockpiles from eight to six due to extremely windy conditions on December 16 which severely hindered sampling activities.

A method of systematic random sampling was utilized to select the 22 sampling locations for the treated stockpile. The stockpile was divided into 22 grids to ensure

equal geographic coverage, and a sampling location was identified for each grid. At each sampling location, subsamples were collected at approximately five foot intervals and then homogenized in a stainless steel bowl using a disposable plastic scoop. From this composite material WEI's primary sample and DTSC's duplicate sample were collected. For volatile organic compounds (VOCs), homogenization was not performed and the sample was collected from a predetermined discrete subsample depth. Samples were then transferred into iced coolers and transported under chain of custody to the analytical laboratory.

During the early part of the sampling a small track-mounted hollow stem auger drilling rig was used to collect the samples. However, as the drilling progressed to the thicker portions of the stockpile the higher density of the material created a significant problem of drilling refusal. To proceed with the sampling, WEI switched to using a long arm excavator for the remainder of the sampling, including that for the untreated stockpile.

WEI collected a total of 22 samples from the treated stockpile and six samples from the untreated stockpile. For its part, DTSC collected four duplicate samples from the treated stockpile and two duplicate samples from the untreated stockpile.

OFFSITE SOIL SAMPLING IMPLEMENTATION

On February 7, 2012 DTSC conducted offsite sampling at four locations upwind (or cross-wind) of the WEI facility, and not known as potential sources of dioxin. Mr. Matt Mullen of WEI and Ms. Becky Ross of CBMI were present to observe the sampling, and Mr. Mullen collected duplicate samples for WEI.

The four locations included two undeveloped tribal properties, an undeveloped County of Riverside property, and a County property being used as a date farm. In accordance with the objective of evaluating potential airborne effects, the samples were collected at or near the ground surface (maximum six inches below grade). The rest of the sampling methodology was essentially similar to that used for the onsite sampling.

EVALUATION OF ONSITE SAMPLING DATA

On March 8, 2012 WEI provided DTSC with a tabulation of their analytical results from samples collected during the December 2011 sampling activity (WEI Soil Sample Data Table). The analytical result did not include laboratory quality assurance/quality control (QA/QC) information, which DTSC then requested. DTSC did not receive a response from WEI until April 25, 2012 when WEI met with DTSC to submit its report *Soil Stockpile Sampling Report for Western Environmental, Inc. Soil Reclamation Facility* prepared by ESRA Consulting LLC. During the meeting WEI informed DTSC about problems in some of the analytical results provided by Test America Laboratories Inc., the laboratory where the samples were taken for analysis after the December sampling. Consequently, WEI decided to send the problematic samples for re-analysis to

Associated Laboratories in Orange CA. According to WEI the data set provided to DTSC represents the validated results from both laboratories, which DTSC is using for this evaluation.

1. WEI departed from the Scope of Work by not providing analytical results for dioxins and furans, the only constituents in the target list for which no data is provided.

   During discussions leading to the offsite sampling by DTSC, WEI strongly disagreed with DTSC's plan to collect samples from areas that are not known sources of dioxins. Instead, WEI favored sampling areas that are known potential sources of dioxins. DTSC rejected WEI's proposal because targeted sampling of known source of dioxin is not useful for evaluating local windborne effects since winds are not expected to selectively pick up dusts from dioxin source areas only. Furthermore, using such data for comparison with WEI soils could potentially obscure dioxins that may be intrinsic to WEI's soils.

2. In accordance with SW-846 procedure, the arithmetic mean (or average value) will be used for characterizing the treated soil stockpile. From the 22 samples collected from the treated stockpile, the following conclusions can be drawn:

   a. The soil stockpile does not exceed any California or federal hazardous waste criteria.

   b. The average polychlorinated biphenyls (PCB 1254) concentration of the stockpile (0.85 mg/kg) exceeds human health criterion for unrestricted, residential land use (0.22 mg/kg) and is about the same as the human health criterion for commercial/industrial land use (0.74 mg/kg) based on the RSL. The RSL was used in lieu of the CHHSL because the CHHSL was based on outdated toxicity data and was never updated.

   c. The average arsenic concentration of the stockpile (20.03 mg/kg) slightly exceeds DTSC's Southern California background value for arsenic (12 mg/kg).

   d. The average lead concentration of the stockpile (153.5 mg/kg) exceeds the human health criterion (80 mg/kg) for residential application but is below the threshold for industrial/commercial application (320 mg/kg) based on the DTSC blood-lead Model, LEADSPREAD Version 8 (www.dtsc.ca.gov/AssessingRisk/LeadSpread8.cfm) and the updated CHHSL for lead.

3. For the untreated soils, six grab samples are compared with hazardous waste criteria. According to WEI, the untreated soil stockpile consisted only of non-hazardous soils (i.e., non-California- and non-RCRA-hazardous). As discussed earlier, the sampling was intended for random verification and not for full characterization, and the decision to collect six samples was based on practical

considerations. Because the sampling was not intended to meet statistical standards, the evaluation is not based on arithmetic mean but individual values.

a. One sample of untreated soil exceeds the California hazardous waste threshold for lead. No other hazardous waste criterion was exceeded.

DIOXIN ISSUE AND OFFSITE SAMPLING DATA

In the absence of dioxin data from WEI, DTSC is using only the data from the duplicate samples it collected (Table 9). For treated soils, the samples indicate an average dioxin Toxicity Equivalency Quotient (TEQ) concentration of 12.63 picograms per gram (pg/g). This value is below DTSC's remedial goal of 50 pg/g for residential sites, and 200 pg/g for commercial/industrial sites (Human Health Risk Assessment Note 2, May 2009).

The results of DTSC's offsite sampling are presented on Tables 3, 5, 6, 7, 8 and 9 (samples labeled as offsite). As discussed earlier, the sampling was conducted to evaluate the possibility that offsite dioxin may be affecting WEI's soil stockpiles through airborne processes. While the analysis includes other constituents, none of the results appear to have any significant bearing on WEI soils.

The average value of the dioxin TEQ for offsite samples is 4.21pg/g. For comparison, the average value for WEI's soil stockpiles is 12.63 pg/g for treated soils, and 7.43pg/g for untreated soils.

Dioxin Analysis, Samples collected by DTSC

	WEI Soil Stockpiles		Offsite Soil (4 samples)
	Treated (4 samples)	Untreated (2 samples)	
Average Dioxin TEQ value, picograms per gram (pg/g)	12.63	7.43	4.21

While the number of samples is very limited and does not represent a statistically significant sampling, it suggests that there is a higher level of dioxin in WEI soil stockpiles than in offsite surface soil samples. This data does not support WEI's suggestion that offsite dioxin is affecting its soil stockpiles.

COMPARISON OF TREATED AND UNTREATED SOIL

As discussed earlier, a direct comparison of treated and untreated soils is not possible because of the limited number of samples from the untreated soils. Furthermore, this sampling did not involve a before-and-after treatment comparison of a specific batch of soil. As such, this study does not allow any meaningful conclusion about the effectiveness of WEI's treatment methodologies.

As an illustration that simple comparison between treated and untreated soil for evaluating treatment effectiveness is of limited value, it is noted that the results for dioxin indicate concentrations in treated soils higher than in untreated soils. In addition, the average values for copper, lead, zinc, nickel, chromium and cadmium are two to three times higher in treated soils than in untreated soils. It should be noted that although treated soil is higher in some compounds they do not exceed hazardous waste levels.

Other factors that should be considered before making any inference about the overall effectiveness of WEI's treatment methods are:

1. The soils that underwent treatment for this sampling event are not representative of normal conditions because it does not include the typical amount of California-hazardous soils that WEI normally accepted for most of its operation since 2003.

2. WEI had more than three months of foreknowledge to prepare for sampling under DTSC oversight. A meaningful survey or inspection would be unannounced.

Because of these conditions, the results of this study cannot be used to make any inference about the effectiveness of WEI's treatment process during this sampling event, or about the quality of past or future treatment processes at WEI.

CONCLUSIONS

The greatest value accomplished by the soil sampling in December 2011 was in fulfilling the first objective of characterizing the existing treated soil stockpile with regard to hazardous waste and human health criteria. This objective received the most effort (and thus the most number of samples) because of human health concern for the communities where these soils would be taken. The second objective of verifying hazardous waste classification was met for a limited number of grab samples. The third objective of evaluating effectiveness of treatment was not met because of the disparity in data between treated and untreated soils. Finally, the offsite sampling conducted by DTSC provided significant information, despite the limited number of samples, to address the concern that offsite chemicals are affecting WEI soils through airborne effects.

The following are the main conclusions of this study:

1. WEI departed from the Scope of Work by not providing dioxin analysis data as required.

2. The treated soil does not exceed any California or federal hazardous waste criteria.

3. The treated soil average concentration for PCBs slightly exceeds the commercial-industrial human health criterion but is within an acceptable range.

4. The treated soil slightly exceeds typical background levels for arsenic in southern California.

5. DTSC's duplicate samples of treated soil indicate the presence dioxin, but none that exceeds DTSC's remedial goal value.

6. Based upon the lower average dioxin results in DTSC's offsite samples, WEI's suggestion that offsite dioxin may be affecting its soil stockpiles is unsupported.

7. The random sampling of the untreated soil stockpile confirms the non-hazardous classification by WEI.

8. This study was not intended as a definitive evaluation of treatment effectiveness therefore does not allow a full evaluation of the effectiveness of WEI's treatment process.

While the immediate goal of the sampling was to address human health concern about the safety of the treated soil, the study provides valuable information that contributes to DTSC's overall understanding of WEI's operations (Evaluation Survey, 2012). Furthermore, while this study did not allow a definitive evaluation of WEI's treatment effectiveness, the Evaluation Survey (2012) addresses the issue and identifies important areas for improvement in procedures and testing protocols.

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Tables

DTSC Split Sample Data Tables

Table 1

Western Environmental Incorporated
62-150 Gene Welmas Drive, Mecca, California
Volatile Organic Compound Soil Sample Results

Sample ID	Freon-11	Acetone	2-Butanone	Benzene	Toluene	Ethylbenzene	M&P Xylenes	O Xylenes	N-Propylbenzene	1, 3, 5-Trimethylbenzene	1, 2, 4-Trimethylbenzene	Naphthalene	Other VOCs
WEI-GL03-NE	ND (7.2)	99	ND (72)	2.0*	2.4*	ND (7.2)	ND (14)	ND (7.2)	ND (7.2)	ND (7.2)	4.9*	4.3*	ND (varies)
WEI-GL07-NW	3.3*	400	66	1.3*	1.8*	ND (4.8)	ND (9.6)	ND (4.8)	ND (4.8)	3.5*	8.1	5.3	ND (varies)
WEI-GL16-SW	ND (4.8)	420	57	2.2*	1.7*	ND (4.8)	ND (9.6)	ND (4.8)	ND (4.8)	ND (4.8)	ND (4.8)	ND (4.8)	ND (varies)
WEI-GL20-W	ND (4.2)	81	ND (42)	1.6*	1.3*	ND (4.2)	ND (8.4)	ND (4.2)	ND (4.2)	ND (4.2)	ND (4.2)	ND (4.2)	ND (varies)
WEI-UT03	ND (4.4)	110	ND (44)	1.7*	6.8	3.4*	14	23	26	70**	260**	25	ND (varies)
WEI-UT06	ND (3.9)	ND (39)	ND (39)	1.6*	1.1*	5.5	ND (7.8)	ND (3.9)	2.6*	ND (3.9)	ND (3.9)	ND (3.9)	ND (varies)
WEI-Blank (liquid)***	ND (5.0)	ND (50)	ND (50)	ND (5.0)	ND (5.0)	ND (5.0)	ND (10)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (varies)
WEI-Offsite-1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WEI-Offsite-2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WEI-Offsite-3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WEI-Offsite-4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Residential Regulatory Threshold [1]	790,000	61,000,000	28,000,000	1,100	5,000,000	5,400	590,000	690,000	3,400,000	780,000	62,000	3,600	varies
Commercial/Industrial Regulatory Threshold [2]	3,400,000	630,000,000	200,000,000	5,400	45,000,000	27,000	2,500,000	3,000,000	21,000,000	10,000,000	260,000	18,000	varies

concentrations reported in micrograms per kilogram (ug/kg)
ND (7.2) - not detected at reported quantitation limit
* - quantitated below the established linear calibration range. Concentration is an estimate
** - quantitated above the established linear calibration range. Concentration is an estimate
*** - blank results reported in micrograms per liter (ug/L) due to liquid nature of sample
N/A - Not Analyzed
[1] - USEPA Residential Regional Screening Levels
[2] - USEPA Commercial/Industrial Regional Screening Levels

Table 2
Western Environmental Incorporated
62-150 Gene Welmas Drive, Mecca, California
Semi Volatile Organic Compound Soil Sample Results

Sample ID	Phenol	Other SVOCs
WEI-GL03-NE	5.05	ND (varies)
WEI-GL07-NW	ND (2.0)	ND (varies)
WEI-GL16-SW	ND (5.0)	ND (varies)
WEI-GL20-W	ND (5.0)	ND (varies)
WEI-UT03	ND (5.0)	ND (varies)
WEI-UT06	ND (0.5)	ND (varies)
WEI-Offsite-1	N/A	N/A
WEI-Offsite-2	N/A	N/A
WEI-Offsite-3	N/A	N/A
WEI-Offsite-4	N/A	N/A
Residential Regulatory Threshold [1]	18,000,000	Varies
Industrial Regulatory Threshold [2]	180,000,000	Varies

concentrations reported in micrograms per kilogram (ug/kg)
ND (7.2) - not detected at reported quantitation limit
N/A - Not Analyzed
[1] - USEPA Residential Regional Screening Level
[2] - USEPA Industrial Regional Screening Level

Table 3

Western Environmental Incorporated
62-150 Gene Welmas Drive, Mecca, California
Total Metals Soil Sample Results

Sample ID	Arsenic	Antimony	Barium	Beryllium	Cadmium	Cobalt	Chromium	Chromium VI	Copper	Mercury	Molybdenum	Nickel	Lead	Selenium	Silver	Thallium	Vanadium	Zinc	pH	Cyanide
WEI-GL03-NE	ND (10)	ND (10)	470	ND (1.0)	ND (2.0)	13	35	ND (0.4)	100	0.315	ND (10)	37	74	ND (1.0)	ND (10)	ND (10)	45	280	9.21	0.18
WEI-GL07-NW	ND (10)	ND (10)	340	ND (1.0)	ND (2.0)	ND (10)	24	0.4	64	0.252	ND (10)	23	46	ND (1.0)	ND (10)	ND (10)	31	230	8.22	0.22
WEI-GL16-SW	12	ND (10)	210	ND (1.0)	ND (2.0)	ND (10)	34	0.5	150	0.462	ND (10)	41	150	ND (1.0)	ND (10)	ND (10)	34	510	9.28	0.32
WEI-GL20-W	ND (10)	ND (10)	190	ND (1.0)	ND (2.0)	ND (10)	30	0.7	130	0.572	ND (10)	42	110	ND (1.0)	ND (10)	ND (10)	31	430	8.76	0.30
WEI-UT03	ND (10)	ND (10)	780	ND (1.0)	ND (2.0)	17	28	1.0	40	0.418	ND (10)	37	26	ND (1.0)	ND (10)	ND (10)	25	82	7.78	ND (0.25)
WEI-UT06	14	ND (10)	1700	ND (1.0)	ND (2.0)	ND (10)	18	ND (0.4)	25	0.087	ND (10)	15	22	ND (1.0)	ND (10)	ND (10)	41	130	7.66	ND (0.25)
WEI-Offsite-1	ND (24.58)	ND (24.58)	242.8	ND (4.92)	ND (24.58)	ND (24.58)	37.2	ND (77.64 ug/L)	34.2	0.021	ND (24.58)	25.98	ND (24.58)	ND (24.58)	ND (24.58)	ND (24.58)	73.6	99.5	8.76	ND (0.25)
WEI-Offsite-2	ND (24.98)	ND (24.98)	129.6	ND (5)	ND (24.98)	ND (24.98)	27.5	ND (76.45 ug/L)	ND (24.98)	ND (0.02)	ND (24.98)	ND (24.98)	ND (24.98)	ND (24.98)	ND (24.98)	ND (24.98)	55.3	81.3	7.65	ND (0.25)
WEI-Offsite-3	ND (24.68)	ND (24.68)	82.3	ND (4.94)	ND (24.68)	ND (24.68)	ND (24.68)	ND (77.46 ug/L)	ND (24.68)	0.022	ND (24.68)	ND (24.68)	ND (24.68)	ND (24.68)	ND (24.68)	ND (24.68)	43.5	59.6	8.48	ND (0.25)
WEI-Offsite-4	ND (24.63)	ND (24.63)	209.8	ND (4.93)	ND (24.63)	ND (24.63)	26.4	ND (76.51 ug/L)	29.1	ND (0.02)	ND (24.63)	ND (24.63)	ND (24.63)	ND (24.63)	ND (24.63)	ND (24.63)	65.9	80.1	8.45	ND (0.25)
Residential Regulatory Threshold [1, 6]	0.07 12	30	5200	16	70	660	100000	17	3000	18	380	1600	80	380	380	5	530	23000		1600 [2]
Industrial Regulatory Threshold [3]	0.24	380	63,000	1700	800	3200	100000	37	38000	180	4800	16000	320	4800	4800	63	6700	100000		20000 [4]
TTLC [5]	500	500	10000	75	100	8000	2500	500	2500	20	3500	2000	1000	100	500	700	2400	5000		

concentrations reported in milligrams per kilogram (mg/kg)
ND (10) - not detected at laboratory quantitation limit
N/A - Not Analyzed
[1] - California Human Health Screening Level for Residential use
[2] - USEPA Residential Regional Screening Level
[3] - California Human Health Screening Level for Industrial use
[4] - USEPA Industrial Regional Screening Level
[5] - Total Threshold Limit Concentration
[6] - DTSC, Determination of a Southern California Regional Background Arsenic Concentration in Soil

Table 4
Western Environmental Incorporated
62-150 Gene Welmas Drive, Mecca, California
Metals TCLP Soil Sample Results

Sample ID	Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver
WEI-GL16-SW	ND (0.2)	0.3	ND (0.04)	ND (0.2)	ND (0.2)	ND (0.04)	ND (0.2)
WEI-GL20-W	ND (0.2)	0.29	ND (0.04)	ND (0.2)	ND (0.2)	ND (0.04)	ND (0.2)
WEI-UT03	ND (0.2)	0.93	ND (0.04)	ND (0.2)	ND (0.2)	ND (0.04)	ND (0.2)
WEI-UT06	ND (0.2)	1.1	ND (0.04)	ND (0.2)	ND (0.2)	ND (0.04)	ND (0.2)
Regulatory Threshold	--	--	--	--	--	--	--
TCLP	5	100	1	5	5	1	5

concentrations reported in milligrams per liter (mg/L)
ND (10) - not detected at method detection limit

Table 5
Western Environmental Incorporated
62-150 Gene Welmas Drive, Mecca, California
Organochlorine Pesticide Results

Sample ID	Alpha-BHC	4,4'-DDE	4,4'-DDD	4,4'-DDT	Other OCPs
WEI-GL03-NE	ND (250)	ND (250)	ND (250)	ND (250)	ND (varies)
WEI-GL07-NW	ND (250)	ND (250)	ND (250)	ND (250)	ND (varies)
WEI-GL16-SW	12	49	21	54	ND (varies)
WEI-GL20-W	ND (10)	48	26	13	ND (varies)
WEI-UT03	ND (250)	ND (250)	ND (250)	ND (250)	ND (varies)
WEI-UT06	ND (250)	ND (250)	ND (250)	ND (250)	ND (varies)
WEI-Offsite-1	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (varies)
WEI-Offsite-2	ND (2.5)	6.84	ND (2.5)	3.35	ND (varies)
WEI-Offsite-3	ND (2.5)	3.69	ND (2.5)	ND (2.5)	ND (varies)
WEI-Offsite-4	ND (2.5)	13.9	ND (2.5)	ND (2.5)	ND (varies)
Residential Regulatory Threshold[1]	--	1600	2300	1600	varies
Industrial Regulatory Threshold [2]	--	6300	9000	6300	varies
TTLC [3]	--	1000	1000	1000	varies

concentrations reported in micrograms per kilogram (µg/kg)
ND (10) - not detected at method detection limit
-- - none identified
[1] - CHHSL for Residential use.
[2] - CHHSL for Industrial use.
[3] - Total Threshold Limit Concentration

Table 6
Western Environmental Incorporated
62-150 Gene Welmas Drive, Mecca, California
Organophosphorus Pesticides Results

Sample ID	All OPP
WEI-GL03-NE	ND (varies)
WEI-GL07-NW	ND (varies)
WEI-GL16-SW	ND (varies)
WEI-GL20-W	ND (varies)
WEI-UT03	ND (varies)
WEI-UT06	ND (varies)
WEI-Offsite-1	ND (varies)
WEI-Offsite-2	ND (varies)
WEI-Offsite-3	ND (varies)
WEI-Offsite-4	ND (varies)
Residential Regulatory Threshold [1]	--
Industrial; Regulatory Threshold [2]	--
TTLC [3]	--

concentrations reported in micrograms per kilogram (µg/kg)
ND (10) - not detected at method detection limit
-- - none identified
[1] - USEPA Regional Screening Level and California Human Health Screening Level for Residential soil
[2] - USEPA Regional Screening Level and California Human Health Screening Level for Industrial soil
[3] - Total Threshold Limit Concentration

Table 7
Western Environmental Incorporated
62-150 Gene Welmas Drive, Mecca, California
Polychlorinated Biphenyl Results

Sample ID	All PCB Analytes
WEI-GL03-NE	ND (1.25)
WEI-GL07-NW	ND (1.25)
WEI-GL16-SW	ND (1.25)
WEI-GL20-W	ND (1.25)
WEI-UT03	ND (1.25)
WEI-UT06	ND (1.25)
WEI-Offsite-1	ND (0.250)
WEI-Offsite-2	ND (0.250)
WEI-Offsite-3	ND (0.250)
WEI-Offsite-4	ND (0.250)
Residential Regulatory Threshold[1]	0.22
Industrial Regulatory Threshold [2]	0.74
TTLC [3]	50

concentrations reported in miligrams per kilogram (mg/kg)
ND (1.25) - not detected at quantitation limit

[1] - USEPA Regional Screening Level for Residential soil

[2] - USEPA Regional Screening Level for Industrial soil

[3] - Total Threshold Limit Concentration

Table 8

Western Environmental Incorporated
62-150 Gene Welmas Drive, Mecca, California
Polynuclear Aromatic Hydrocarbons Results

Sample ID	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(g,h,i)perylene	Benzo(k)fluoracene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Phenanthrene	Pyrene
WEI-GL03-NE	ND (1000)	ND (1000)	ND (1000)	ND (1000)	ND (1000)	ND (1000)	ND (1000)	ND (1000)	ND (1000)	ND (1000)
WEI-GL07-NW	ND (1000)	ND (1000)	ND (1000)	ND (1000)	ND (1000)	ND (1000)	ND (1000)	ND (1000)	ND (1000)	ND (1000)
WEI-GL16-SW	ND (1000)	ND (1000)	ND (1000)	ND (1000)	ND (1000)	ND (1000)	ND (1000)	ND (1000)	ND (1000)	ND (1000)
WEI-GL20-W	ND (1000)	ND (1000)	ND (1000)	ND (1000)	ND (1000)	ND (1000)	ND (1000)	ND (1000)	ND (1000)	ND (1000)
WEI-UT03	ND (1000)	ND (1000)	ND (1000)	ND (1000)	ND (1000)	ND (1000)	ND (1000)	ND (1000)	1,720	ND (1000)
WEI-UT06	1,760	ND (1000)	1,330	1,110	1,770	ND (1000)	2,830	2,280	6,660	1,180
WEI-Offsite-1	ND (10)	19.5	10.5	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
WEI-Offsite-2	ND (10)	22.3	18.9	ND (10)	14.4	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
WEI-Offsite-3	ND (10)	37.7	10.0	ND (10)	25.0	19.4	ND (10)	ND (10)	ND (10)	ND (10)
WEI-Offsite-4	ND (10)	19.7	10.2	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Residential Regulatory Threshold[1]	150	15	27,000[3]	380[3]	15,000	15	2,300,000	2,300,000	--	1,700,000
Industrial Regulatory Threshold [2]	2100	210	27,000[3]	1,300[3]	210,000	210	22,000,000	22,000,000	--	17,000,000
TTLC [4]	--	--	--	--	--	--	--	--	--	--

concentrations reported in micrograms per kilogram (µg/kg)
ND (1000) - not detected at stated reporting limit
-- - None identified
PAH southern California background expected to be near 900 ug/kg benzo(a)pyrene toxicity equivalent concentration
[1] - US EPA Regional Screening Level for Residential soil as no CHHSL exist for these compounds
[2] - US EPA Regional Screening Level for Industrial soil as no CHHSL exist for these compounds
[3] - Regional Water Quality Control Board - San Francisco Bay Region
[4] - Total Threshold Limit Concentration

Table 9
Western Environmental Incorporated
62-150 Gene Welmas Drive, Mecca, California
Dioxin TEQ Results

Sample ID	TEQ
WEI-GL03-NE	5.88
WEI-GL07-NW	9.13
WEI-GL07-NW-D	6.73
WEI-GL16-SW	14.86
WEI-GL20-W	15.68
WEI-GL20-W-D	23.89
WEI-UT03	2.31
WEI-UT06	5.12
WEI-Offsite-1	1.51
WEI-Offsite-2	0.76
WEI-Offsite-3	1
WEI-Offsite-4	0.94
Residential Regulatory Threshold[1]	50
Industrial Regulatory Threshold [1]	200
TTLC [2]	10,000

concentrations reported in picograms per gram (pg/g)

[1] - DTSC Human Health Risk Assessment Note 2 dated May 2009

[2] - Total Threshold Limit Concentration

WEI Soil Sample Data Table

Table 1 - Summary of Soil Sampling Results
Western Environmental, Inc.
65-150 Gene Welmas Drive
Mecca, CA 92254

Parameter	California Regulatory Limits				Region 9 Screening Limits	Sampling Locations																			
	CSTLC (mg/L)	CTTLC (mg/kg)	CHHSL (mg/kg)	MCL (mg/L)	Industrial Soil (mg/kg)	Clean Samples																			
Lab Sample ID						298460-001	298460-002	298460-003	298460-004	298460-005	298460-006	298460-007	298460-008	298460-009	298460-010	298460-011	298460-012	298460-013	298460-014	298460-015	298460-016	298460-017	298460-018	298460-019	298460-020
Customer Sample ID						GL001-S001	GL002-S002	GL003-S003	GL004-S004	GL005-S005	GL006-S006	GL007-S007	GL008-S008	GL009-S009	GL010-S010	GL011-S011	GL012-S012	GL013-S013	GL014-S014	GL015-S015	GL016-S016	GL017-S017	GL018-S018	GL019-S019	GL020-S020
Sampling Date						12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/15/11	12/15/11	12/15/11	12/15/11	12/15/11	12/15/11	12/15/11
Sample Time						8:35:00	9:14:00	10:02:00	10:31:00	11:10:00	12:48:00	13:08:00	13:38:00	14:14:00	14:51:00	15:15:00	15:29:00	14:04:00	7:04:00	7:36:00	8:31:00	9:36:00	11:11:00	13:22:00	15:30:00
metals-6010B																									
(mg/kg dry wt)																									
Antimony	15	500	380	0.006	41																				
Arsenic	5	500	0.24	0.01	0.16																				
Barium	100	10000	63000	1	19000																				
Beryllium	0.75	75	1700	0.004	200																				
Cadmium	1	100	7.5	0.005	80																				
Chromium	5	2500		0.05																					
Cobalt	80	8000	3200		30																				
Copper	25	2500	38000	1.3*	4100																				
Lead	5	1000	3500	0.015*	80																				
Molybdenum	350	3500	4800		510																				
Nickel	20	2000	16000	0.1	2000																				
Selenium	1	100	4800	0.05	510																				
Silver	5	500	4800		510																				
Thallium	7	700	63	0.002	1																				
Vanadium	24	2400	6700		520																				
Zinc	250	5000	100000		31000																				
metals-6010B/3050B																									
(mg/kg dry wt)																									
Antimony	15	500	380	0.006	41	ND(0.37)	ND(0.37)	ND(0.37)	ND(0.37)	ND(0.37)	ND(0.37)	ND(0.37)	ND(0.37)	ND(0.37)	ND(0.37)	ND(0.37)	ND(0.37)	ND(0.37)	ND(0.37)	ND(0.37)	ND(0.37)	ND(0.37)	ND(0.37)	ND(0.37)	ND(0.37)
Arsenic	5	500	0.24	0.01	0.16	23.6	23.7	16.8	13.9	18.2	10.3	9.78	17.7	17	19.3	22.9	18.4	21.2	17.8	20	25.7	24	19.3	25.7	21.6
Barium	100	10000	63000	1	19000	924	812	637	684	824	809	593	834	772	791	701	974	735	659	786	749	914	906	733	699
Beryllium	0.75	75	1700	0.004	200	0.7	0.7	1	0.6	0.6	0.6	ND(0.17)	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.7	0.6
Cadmium	1	100	7.5	0.005	80	2.63	2.69	6.54	1.78	2.54	2.07	1.24	2.06	2.25	2.3	2.6	2.45	3.7	2.31	2.85	2.98	2.89	2.32	2.59	3.02
Chromium	5	2500		0.05		51.6	52.6	38.1	35.7	47.3	91.8	30.7	45.3	43.1	63.1	59.1	61.7	52.6	35.6	61.7	85.8	91.2	43.2	49.3	157
Cobalt	80	8000	3200		30	13	13.5	11.2	10.4	11.2	9.69	8.1	11.8	11.7	37.1	11.9	12.7	12.5	10.7	12.1	14.3	13.1	12.1	12.7	14
Copper	25	2500	38000	1.3*	4100	374	207	112	599	173	122	74.7	169	160	177	233	187	199	123	216	202	233	166	206	289
Lead	5	1000	3500	0.015*	80	186	146	102	81.1	123	98.8	53.8	112	112	125	152	168	198	107	171	222	171	229	171	193
Molybdenum	350	3500	4800		510	6.82	7.97	4.22	5.28	5.37	6.49	5.43	8.27	8.42	5.6	5.31	5.09	6.26	6.3	4.61	10.1	5.88	7.64	5.49	25
Nickel	20	2000	16000	0.1	2000	51.9	53.5	31.3	33.7	42.4	39.5	24.9	38.6	40.5	40.4	49.7	51.6	46.6	37	49.5	74.6	66.6	46.2	50.4	123
Selenium	1	100	4800	0.05	510	ND(0.72)	3.59	ND(0.72)	ND(0.72)	ND(0.72)	2.28	ND(0.72)	ND(0.72)	ND(0.72)	ND(0.72)	ND(0.72)	ND(0.72)	ND(0.72)	ND(0.72)	1.87	ND(0.72)	2.74	1.63	2.97	ND(0.72)
Silver	5	500	4800		510	1.39	0.8	0.7	0.9	0.7	0.8	ND(0.13)	0.8	0.7	2.47	0.7	1.18	1	0.9	1.11	1.05	0.9	0.7	1	0.9
Thallium	7	700	63	0.002	1	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)
Vanadium	24	2400	6700		520	47.9	45.6	41.9	38.5	41.5	36.6	31.1	44.9	41.9	41.7	42.7	42	44.6	38	44.6	44.6	47.8	43.4	47.2	47.6
Zinc	250	5000	100000		31000	717	588	365	324	524	465	216	524	522	495	603	538	1020	398	682	626	659	490	668	849
metals-6010B/STLC (mg/L)																									
Barium	100	10000	63000	1	19000																				
Chromium	5	2500		0.05		0.448	0.73				0.477				0.779	0.75	1.04	0.721		0.995	1.17	1.22			0.648
Copper	25	2500	38000	1.3*	4100	7.18			4.15																10.5
Lead	5	1000	3500	0.015*	80	3.08	3.76	2.7	1.25	2.11	2.11	1.24	2.68	1.58	3	2.82	8.69	5.26	1.32	3.25	3	3.18	2.62	3.43	4.62
metals-6010B/TCLP/EPA 1311 (mg/L)																									
Lead	5	1000	3500	0.015*	80												ND(0.004)	ND(0.004)							ND(0.004)
metals-7196 (mg/L.)																									
Chromium (IV)	5	500	37	0.05*	5.6	ND(0.39)	ND(0.4)	ND(8)	ND(0.4)	ND(0.39)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(8)	ND(0.39)
metals-7470A/STLC/7470A (mg/L.)																									
Mercury	0.2	20	180	0.002	4.3																				
metals-7471A (mg/kg dry wt.)																									
Mercury	0.2	20	180	0.002	4.3	0.31	0.33	0.23	0.24	0.34	0.43	0.16	0.29	0.27	0.3	0.5	0.46	0.32	0.28	0.35	0.43	0.41	0.33	0.38	0.43
metals-6010B/1312/3010A (mg/L)																									
Arsenic	5	500	0.24	0.01	0.16																				
Lead	5	1000	3500	0.015*	80																				
8081A/3546																									
dry weight (mg/kg dry wt)																									
4,4'-DDD	0.1	1	9		0.72	ND(0.015)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.015)	ND(0.015)	ND(0.0075)	ND(0.015)	ND(0.015)	ND(0.015)	ND(0.03)	ND(0.015)	ND(0.015)	ND(0.015)	ND(0.015)
4,4'-DDE	0.1	1	6.3		0.51	ND(0.015)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.015)	ND(0.015)	0.039	ND(0.015)	ND(0.015)	ND(0.015)	ND(0.03)	ND(0.015)	ND(0.015)	ND(0.015)	ND(0.015)
4,4'-DDT	0.1	1	6.3		0.7	ND(0.015)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.015)	ND(0.015)	0.027	ND(0.015)	ND(0.015)	ND(0.015)	ND(0.03)	ND(0.015)	ND(0.015)	ND(0.015)	ND(0.015)
Aldrin	0.14	1.4	0.13		0.01	ND(0.015)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.015)	ND(0.015)	ND(0.0075)	ND(0.015)	ND(0.015)	ND(0.015)	ND(0.03)	ND(0.015)	ND(0.015)	ND(0.015)	ND(0.015)
alpha-BHC					0.027	ND(0.015)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.015)	ND(0.015)	ND(0.0075)	ND(0.015)	ND(0.015)	ND(0.015)	ND(0.03)	ND(0.015)	ND(0.015)	ND(0.015)	ND(0.015)
beta-BHC					0.096	ND(0.015)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.015)	ND(0.015)	ND(0.0075)	ND(0.015)	ND(0.015)	ND(0.015)	ND(0.03)	ND(0.015)	ND(0.015)	ND(0.015)	ND(0.015)
Chlordane	0.25	2.5	1.7	0.0001	0.65	ND(0.1)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.1)	ND(0.1)	ND(0.05)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.2)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
delta-BHC						ND(0.015)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.015)	ND(0.015)	ND(0.0075)	ND(0.015)	ND(0.015)	ND(0.015)	ND(0.03)	ND(0.015)	ND(0.015)	ND(0.015)	ND(0.015)
Dieldrin	0.8	8	0.13		0.011	ND(0.015)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.015)	ND(0.015)	ND(0.0075)	ND(0.015)	ND(0.015)	ND(0.015)	ND(0.03)	ND(0.015)	ND(0.015)	ND(0.015)	ND(0.015)
Endosulfan I						ND(0.015)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.015)	ND(0.015)	ND(0.0075)	ND(0.015)	ND(0.015)	ND(0.015)	ND(0.03)	ND(0.015)	ND(0.015)	ND(0.015)	ND(0.015)
Endosulfan II						ND(0.015)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.015)	ND(0.015)	ND(0.0075)	ND(0.015)	ND(0.015)	ND(0.015)	ND(0.03)	ND(0.015)	ND(0.015)	ND(0.015)	ND(0.015)
Endosulfan sulfate						ND(0.02)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.02)	ND(0.02)	ND(0.01)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.04)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
Endrin	0.02	0.2	230	0.002	18	ND(0.015)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.015)	ND(0.015)	ND(0.0075)	ND(0.015)	ND(0.015)	ND(0.015)	ND(0.03)	ND(0.015)	ND(0.015)	ND(0.015)	ND(0.015)
Endrin aldehyde						ND(0.015)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.015)	ND(0.015)	ND(0.0075)	ND(0.015)	ND(0.015)	ND(0.015)	ND(0.03)	ND(0.015)	ND(0.015)	ND(0.015)	ND(0.015)
Endrin ketone						ND(0.02)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.02)	ND(0.02)	ND(0.01)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.04)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
gamma-BHC (Lindane)	0.4	4	2	0.0002	0.21	ND(0.015)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.015)	ND(0.015)	ND(0.0075)	ND(0.015)	ND(0.015)	ND(0.015)	ND(0.03)	ND(0.015)	ND(0.015)	ND(0.015)	ND(0.015)
Heptachlor	0.47	4.7	0.52	1E-05	0.038	ND(0.02)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.02)	ND(0.02)	ND(0.01)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.04)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
Heptachlor epoxide				1E-05	0.019	ND(0.02)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.02)	ND(0.02)	ND(0.01)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.04)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
Methoxychlor	10	100	3800	0.03	310	ND(0.015)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.015)	ND(0.015)	ND(0.0075)	ND(0.015)	ND(0.015)	ND(0.015)	ND(0.03)	ND(0.015)	ND(0.015)	ND(0.015)	ND(0.015)
Tetrachloro-m-xylene						0.0211	0.0249	0.0248	0.0213	0.0222	0.0232	0.0238	0.0191	0.0222	0.022	0.0232	0.0206	0.0185	0.0262	0.0148	0.0188	0.018	0.0204	0.0239	0.0157
Toxaphene	0.5	5	1.8	0.003	0.16	ND(0.5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(0.25)	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
PCBs- 8082/3545																									
drywt (mg/kg dry wt)																									
PCB-1016	5.0	50	0.3	0.0005	2.1	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
PCB-1221	5.0	50	0.3	0.0005	0.054	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
PCB-1232	5.0	50	0.3	0.0005	0.054	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
PCB-1242	5.0	50	0.3	0.0005	0.074	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
PCB-1248	5.0	50	0.3	0.0005	0.074	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
PCB-1254	5.0	50	0.3	0.0005	0.074	0.73	0.9	0.57	0.55	0.95	0.59	0.35	0.84	0.66	0.91	1	0.78	0.91	0.74	1.1	0.85	0.91	0.8	1.1	1.1
PCB-1260	5.0	50	0.3	0.0005	0.074	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
PCB 1262	5.0	50	0.3	0.0005	0.074	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
PCB 1268	5.0	50	0.3	0.0005	0.074	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
PCBs- 8082/1312/3510C (mg/L)																									
PCB-1016	5.0	50	0.3	0.0005	2.1																				
PCB-1221	5.0	50	0.3	0.0005	0.054																				
PCB-1232	5.0	50	0.3	0.0005	0.054																				
PCB-1242	5.0	50	0.3	0.0005	0.074																				
PCB-1248	5.0	50	0.3	0.0005	0.074																				
PCB-1254	5.0	50	0.3	0.0005	0.074																				
PCB-1260	5.0	50	0.3	0.0005	0.074																				

Table 1 - Summary of Soil Sampling Results
Western Environmental, Inc.
65-150 Gene Welmas Drive
Mecca, CA 92254

Parameter	California Regulatory Limits				Region 9 Screening Limits	Sampling Locations																			
	CSTLC (mg/L)	CTTLC (mg/kg)	CHHSL (mg/kg)	MCL (mg/L)	Industrial Soil (mg/kg)	Clean Samples																			
Lab Sample ID						298460-001	298460-002	298460-003	298460-004	298460-005	298460-006	298460-007	298460-008	298460-009	298460-010	298460-011	298460-012	298460-013	298460-014	298460-015	298460-016	298460-017	298460-018	298460-019	298460-020
Customer Sample ID						GL001-S001	GL002-S002	GL003-S003	GL004-S004	GL005-S005	GL006-S006	GL007-S007	GL008-S008	GL009-S009	GL010-S010	GL011-S011	GL012-S012	GL013-S013	GL014-S014	GL015-S015	GL016-S016	GL017-S017	GL018-S018	GL019-S019	GL020-S020
Sampling Date						12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/15/11	12/15/11	12/15/11	12/15/11	12/15/11	12/15/11	12/15/11
Sample Time						8:35:00	9:14:00	10:02:00	10:31:00	11:10:00	12:48:00	13:08:00	13:38:00	14:14:00	14:51:00	15:15:00	15:29:00	14:04:00	7:04:00	7:36:00	8:31:00	9:36:00	11:11:00	13:22:00	15:30:00
PCB 1262	5.0	50	0.3	0.0005	0.074																				
PCB 1268	5.0	50	0.3	0.0005	0.074																				
8260B/5035 GCMS																									
dry weight (mg/kg dry wt)																									
1,1,1,2-Tetrachloroethane					0.93	ND(0.00071)	ND(0.001)	ND(0.0012)	ND(0.00082)	ND(0.00072)	ND(0.00094)	ND(0.0008)	ND(0.0007)	ND(0.00054)	ND(0.00052)	ND(0.0007)	ND(0.00055)	ND(0.00047)	ND(0.00042)	ND(0.00053)	ND(0.00073)	ND(0.00051)	ND(0.00057)	ND(0.00052)	ND(0.00071)
1,1,1-Trichloroethane					3800	ND(0.00088)	ND(0.0013)	ND(0.0015)	ND(0.001)	ND(0.0011)	ND(0.00088)	ND(0.0012)	ND(0.00098)	ND(0.00086)	ND(0.00066)	ND(0.00064)	ND(0.00086)	ND(0.00058)	ND(0.00052)	ND(0.00065)	ND(0.0009)	ND(0.00062)	ND(0.00071)	ND(0.00063)	ND(0.00087)
1,1,2,2-Tetrachloroethane				0.001	0.28	ND(0.0011)	ND(0.0015)	ND(0.0018)	ND(0.0012)	ND(0.0011)	ND(0.0014)	ND(0.0012)	ND(0.0011)	ND(0.00081)	ND(0.00079)	ND(0.0011)	ND(0.00083)	ND(0.00071)	ND(0.00064)	ND(0.0008)	ND(0.0011)	ND(0.00077)	ND(0.00087)	ND(0.00078)	ND(0.0011)
1,1,2-Trichloroethane					0.53	ND(0.0011)	ND(0.0016)	ND(0.0018)	ND(0.0013)	ND(0.0011)	ND(0.0014)	ND(0.0012)	ND(0.0011)	ND(0.00082)	ND(0.0008)	ND(0.0011)	ND(0.00084)	ND(0.00072)	ND(0.00065)	ND(0.00081)	ND(0.0011)	ND(0.00077)	ND(0.00088)	ND(0.00079)	ND(0.0011)
1,1-Dichloroethane				0.005	1.7	ND(0.00062)	ND(0.0009)	ND(0.0011)	ND(0.00072)	ND(0.00063)	ND(0.00083)	ND(0.0007)	ND(0.00062)	ND(0.00047)	ND(0.00046)	ND(0.00061)	ND(0.00048)	ND(0.00041)	ND(0.00037)	ND(0.00046)	ND(0.00064)	ND(0.00044)	ND(0.0005)	ND(0.00045)	ND(0.00062)
1,1-Dichloroethene				0.006	110	ND(0.00075)	ND(0.0011)	ND(0.0013)	ND(0.00086)	ND(0.00076)	ND(0.00099)	ND(0.00084)	ND(0.00074)	ND(0.00057)	ND(0.00055)	ND(0.00074)	ND(0.00058)	ND(0.00049)	ND(0.00045)	ND(0.00056)	ND(0.00077)	ND(0.00053)	ND(0.0006)	ND(0.00054)	ND(0.00075)
1,1-Dichloropropene						ND(0.0005)	ND(0.00072)	ND(0.00084)	ND(0.00058)	ND(0.00051)	ND(0.00066)	ND(0.00056)	ND(0.00049)	ND(0.00038)	ND(0.00037)	ND(0.00049)	ND(0.00039)	ND(0.00033)	ND(0.0003)	ND(0.00037)	ND(0.00051)	ND(0.00036)	ND(0.0004)	ND(0.00036)	ND(0.0005)
1,2,3-Trichlorobenzene					49	ND(0.0012)	ND(0.0018)	ND(0.0021)	ND(0.0014)	ND(0.0013)	ND(0.0017)	ND(0.0014)	ND(0.0012)	ND(0.00095)	ND(0.00092)	ND(0.0012)	ND(0.00097)	ND(0.00082)	ND(0.00075)	ND(0.00093)	ND(0.0013)	ND(0.00089)	ND(0.001)	ND(0.00091)	ND(0.0012)
1,2,3-Trichloropropane					0.0095	ND(0.0012)	ND(0.0018)	ND(0.0021)	ND(0.0014)	ND(0.0013)	ND(0.0017)	ND(0.0014)	ND(0.0012)	ND(0.00095)	ND(0.00092)	ND(0.0012)	ND(0.00097)	ND(0.00082)	ND(0.00075)	ND(0.00093)	ND(0.0013)	ND(0.00089)	ND(0.001)	ND(0.00091)	ND(0.0012)
1,2,4-Trichlorobenzene					9.9	ND(0.0012)	ND(0.0018)	ND(0.0021)	ND(0.0014)	ND(0.0013)	ND(0.0017)	ND(0.0014)	ND(0.0012)	ND(0.00095)	ND(0.00092)	ND(0.0012)	ND(0.00097)	ND(0.00082)	ND(0.00075)	ND(0.00093)	ND(0.0013)	ND(0.00089)	ND(0.001)	ND(0.00091)	ND(0.0012)
1,2,4-Trimethylbenzene					26	0.012	0.004	0.01	0.0056	0.0054	ND(0.0013)	0.014	0.0033	0.0021	ND(0.00071)	ND(0.00096)	ND(0.00075)	0.0017	0.0015	ND(0.00072)	ND(0.001)	ND(0.00069)	0.0022	ND(0.00071)	ND(0.00097)
1,2-Dibromo-3-chloropropane				0.0002	0.0069	ND(0.0019)	ND(0.0027)	ND(0.0032)	ND(0.0022)	ND(0.0019)	ND(0.0025)	ND(0.0021)	ND(0.0019)	ND(0.0014)	ND(0.0014)	ND(0.0018)	ND(0.0014)	ND(0.0012)	ND(0.0011)	ND(0.0014)	ND(0.0019)	ND(0.0013)	ND(0.0015)	ND(0.0014)	ND(0.0019)
1,2-Dibromoethane (EDB)				5E-05	0.017	ND(0.001)	ND(0.0014)	ND(0.0017)	ND(0.0012)	ND(0.001)	ND(0.0013)	ND(0.0011)	ND(0.00099)	ND(0.00076)	ND(0.00073)	ND(0.00098)	ND(0.00077)	ND(0.00066)	ND(0.0006)	ND(0.00074)	ND(0.001)	ND(0.00071)	ND(0.00081)	ND(0.00072)	ND(0.001)
1,2-Dichlorobenzene				0.6	980	ND(0.0012)	ND(0.0017)	ND(0.002)	ND(0.0014)	ND(0.0012)	ND(0.0016)	0.0029	ND(0.0012)	ND(0.0009)	ND(0.00087)	ND(0.0012)	ND(0.00092)	ND(0.00078)	ND(0.00071)	ND(0.00088)	ND(0.0012)	ND(0.00085)	ND(0.00096)	ND(0.00086)	ND(0.0012)
1,2-Dichloroethane				0.0005	0.22	ND(0.001)	ND(0.0014)	ND(0.0017)	ND(0.0012)	ND(0.001)	ND(0.0013)	ND(0.0011)	ND(0.00099)	ND(0.00076)	ND(0.00073)	ND(0.00098)	ND(0.00077)	ND(0.00066)	ND(0.0006)	ND(0.00074)	ND(0.001)	ND(0.00071)	ND(0.00081)	ND(0.00072)	ND(0.001)
1,2-Dichloropropane				0.005	0.47	ND(0.001)	ND(0.0014)	ND(0.0017)	ND(0.0012)	ND(0.001)	ND(0.0013)	ND(0.0011)	ND(0.00099)	ND(0.00076)	ND(0.00073)	ND(0.00098)	ND(0.00077)	ND(0.00066)	ND(0.0006)	ND(0.00074)	ND(0.001)	ND(0.00071)	ND(0.00081)	ND(0.00072)	ND(0.001)
1,3,5-Trimethylbenzene					1000	0.0045	ND(0.0011)	0.0049	ND(0.00091)	0.0026	ND(0.001)	0.0056	ND(0.00078)	ND(0.0006)	ND(0.00058)	ND(0.00077)	ND(0.00061)	ND(0.00052)	ND(0.00047)	ND(0.00059)	ND(0.00081)	ND(0.00056)	ND(0.00064)	ND(0.00057)	ND(0.00079)
1,3-Dichlorobenzene						ND(0.001)	ND(0.0015)	ND(0.0018)	ND(0.0012)	ND(0.0011)	ND(0.0014)	ND(0.0012)	ND(0.001)	ND(0.0008)	ND(0.00077)	ND(0.001)	ND(0.00081)	ND(0.00069)	ND(0.00063)	ND(0.00078)	ND(0.0011)	ND(0.00075)	ND(0.00085)	ND(0.00076)	ND(0.001)
1,3-Dichloropropane					2000	ND(0.00079)	ND(0.0011)	ND(0.0013)	ND(0.00091)	ND(0.0008)	ND(0.001)	ND(0.00088)	ND(0.00078)	ND(0.0006)	ND(0.00058)	ND(0.00077)	ND(0.00061)	ND(0.00052)	ND(0.00047)	ND(0.00059)	ND(0.00081)	ND(0.00056)	ND(0.00064)	ND(0.00057)	ND(0.00079)
1,4-Dichlorobenzene				0.0005	1.2	ND(0.0012)	ND(0.0017)	ND(0.002)	ND(0.0014)	ND(0.0012)	ND(0.0016)	ND(0.0013)	ND(0.0012)	ND(0.00089)	ND(0.00086)	ND(0.0012)	ND(0.00091)	ND(0.00077)	ND(0.0007)	ND(0.00087)	ND(0.0012)	ND(0.00084)	ND(0.00095)	ND(0.00085)	ND(0.0012)
2,2-Dichloropropane						ND(0.00075)	ND(0.0011)	ND(0.0013)	ND(0.00086)	ND(0.00076)	ND(0.00099)	ND(0.00084)	ND(0.00074)	ND(0.00057)	ND(0.00055)	ND(0.00074)	ND(0.00058)	ND(0.00049)	ND(0.00045)	ND(0.00056)	ND(0.00077)	ND(0.00053)	ND(0.0006)	ND(0.00054)	ND(0.00075)
2-Chlorotoluene					2000	ND(0.0011)	ND(0.0016)	ND(0.0018)	ND(0.0013)	ND(0.0011)	ND(0.0014)	ND(0.0012)	ND(0.0011)	ND(0.00082)	ND(0.0008)	ND(0.0011)	ND(0.00084)	ND(0.00072)	ND(0.00065)	ND(0.00081)	ND(0.0011)	ND(0.00077)	ND(0.00088)	ND(0.00079)	ND(0.0011)
4-Bromofluorobenzene						0.0604	0.0752	0.0892	0.0653	0.0558	0.0735	0.0637	0.0549	0.0416	0.0402	0.0509	0.0435	0.0347	0.0335	0.0412	0.0505	0.0387	0.0429	0.0399	0.0548
4-Chlorotoluene					2000	ND(0.00092)	ND(0.0013)	ND(0.0016)	ND(0.0011)	ND(0.00093)	ND(0.0012)	ND(0.001)	ND(0.00091)	ND(0.0007)	ND(0.00068)	ND(0.00091)	ND(0.00071)	ND(0.00061)	ND(0.00055)	ND(0.00069)	ND(0.00095)	ND(0.00066)	ND(0.00075)	ND(0.00067)	ND(0.00092)
Benzene				0.001	0.54	ND(0.00062)	ND(0.0009)	ND(0.0011)	ND(0.00072)	ND(0.00063)	0.0033	ND(0.0007)	ND(0.00062)	ND(0.00047)	ND(0.00046)	ND(0.00061)	ND(0.00048)	ND(0.00041)	ND(0.00037)	ND(0.00046)	ND(0.00064)	ND(0.00044)	ND(0.0005)	ND(0.00045)	ND(0.00062)
Bromobenzene					180	ND(0.001)	ND(0.0015)	ND(0.0018)	ND(0.0012)	ND(0.0011)	ND(0.0014)	ND(0.0012)	ND(0.001)	ND(0.0008)	ND(0.00077)	ND(0.001)	ND(0.00081)	ND(0.00069)	ND(0.00063)	ND(0.00078)	ND(0.0011)	ND(0.00075)	ND(0.00085)	ND(0.00076)	ND(0.001)
Bromochloromethane					68	ND(0.0011)	ND(0.0016)	ND(0.0019)	ND(0.0013)	ND(0.0011)	ND(0.0015)	ND(0.0013)	ND(0.0011)	ND(0.00085)	ND(0.00082)	ND(0.0011)	ND(0.00087)	ND(0.00074)	ND(0.00067)	ND(0.00084)	ND(0.0012)	ND(0.0008)	ND(0.00091)	ND(0.00082)	ND(0.0011)
Bromodichloromethane				0.08*	0.14	ND(0.00062)	ND(0.0009)	ND(0.0011)	ND(0.00072)	ND(0.00063)	ND(0.00083)	ND(0.0007)	ND(0.00062)	ND(0.00047)	ND(0.00046)	ND(0.00061)	ND(0.00048)	ND(0.00041)	ND(0.00037)	ND(0.00046)	ND(0.00064)	ND(0.00044)	ND(0.0005)	ND(0.00045)	ND(0.00062)
Bromoform				0.08*	22	ND(0.001)	ND(0.0014)	ND(0.0017)	ND(0.0012)	ND(0.001)	ND(0.0013)	ND(0.0011)	ND(0.00099)	ND(0.00076)	ND(0.00073)	ND(0.00098)	ND(0.00077)	ND(0.00066)	ND(0.0006)	ND(0.00074)	ND(0.001)	ND(0.00071)	ND(0.00081)	ND(0.00072)	ND(0.001)
Bromomethane					3.2	ND(0.0012)	ND(0.0016)	ND(0.0019)	ND(0.0013)	ND(0.0012)	ND(0.0015)	ND(0.0013)	ND(0.0011)	ND(0.00087)	ND(0.00084)	ND(0.0011)	ND(0.00089)	ND(0.00076)	ND(0.00069)	ND(0.00086)	ND(0.0012)	ND(0.00082)	ND(0.00093)	ND(0.00083)	ND(0.0011)
Carbon Tetrachloride				0.0005	0.3	ND(0.00062)	ND(0.0009)	ND(0.0011)	ND(0.00072)	ND(0.00063)	ND(0.00083)	ND(0.0007)	ND(0.00062)	ND(0.00047)	ND(0.00046)	ND(0.00061)	ND(0.00048)	ND(0.00041)	ND(0.00037)	ND(0.00046)	ND(0.00064)	ND(0.00044)	ND(0.0005)	ND(0.00045)	ND(0.00062)
Chlorobenzene				0.07	140	ND(0.00065)	ND(0.00093)	ND(0.0011)	ND(0.00075)	ND(0.00066)	ND(0.00086)	ND(0.00073)	ND(0.00064)	ND(0.00049)	ND(0.00048)	ND(0.00064)	ND(0.0005)	ND(0.00043)	ND(0.00039)	ND(0.00048)	ND(0.00067)	ND(0.00046)	ND(0.00052)	ND(0.00047)	ND(0.00065)
Chloroethane					6100	ND(0.0019)	ND(0.0027)	ND(0.0032)	ND(0.0022)	ND(0.0019)	ND(0.0025)	ND(0.0021)	ND(0.0019)	ND(0.0014)	ND(0.0014)	ND(0.0018)	ND(0.0014)	ND(0.0012)	ND(0.0011)	ND(0.0014)	ND(0.0019)	ND(0.0013)	ND(0.0015)	ND(0.0014)	ND(0.0019)
Chloroform				0.08*	0.15	ND(0.00062)	ND(0.0009)	ND(0.0011)	ND(0.00072)	ND(0.00063)	ND(0.00083)	ND(0.0007)	ND(0.00062)	ND(0.00047)	ND(0.00046)	ND(0.00061)	ND(0.00048)	ND(0.00041)	ND(0.00037)	ND(0.00046)	ND(0.00064)	ND(0.00044)	ND(0.0005)	ND(0.00045)	ND(0.00062)
Chloromethane					50	ND(0.0012)	ND(0.0018)	ND(0.0021)	ND(0.0014)	ND(0.0013)	ND(0.0017)	ND(0.0014)	ND(0.0012)	ND(0.00095)	ND(0.00092)	ND(0.0012)	ND(0.00097)	ND(0.00082)	ND(0.00075)	ND(0.00093)	ND(0.0013)	ND(0.00089)	ND(0.001)	ND(0.00091)	ND(0.0012)
cis-1,2-Dichloroethene				0.006	200	ND(0.001)	ND(0.0015)	ND(0.0017)	ND(0.0012)	ND(0.001)	0.0036	ND(0.0012)	ND(0.001)	ND(0.00079)	ND(0.00076)	ND(0.001)	ND(0.0008)	ND(0.00068)	ND(0.00062)	ND(0.00077)	ND(0.0011)	ND(0.00074)	ND(0.00084)	ND(0.00075)	ND(0.001)
cis-1,3-Dichloropropene				0.0005		ND(0.00055)	ND(0.00079)	ND(0.00092)	ND(0.00063)	ND(0.00056)	ND(0.00073)	ND(0.00062)	ND(0.00054)	ND(0.00042)	ND(0.0004)	ND(0.00054)	ND(0.00042)	ND(0.00036)	ND(0.00033)	ND(0.00041)	ND(0.00057)	ND(0.00039)	ND(0.00044)	ND(0.0004)	ND(0.00055)
Dibromochloromethane				0.08*	0.33	ND(0.00088)	ND(0.0013)	ND(0.0015)	ND(0.001)	ND(0.00088)	ND(0.0012)	ND(0.00098)	ND(0.00086)	ND(0.00066)	ND(0.00064)	ND(0.00086)	ND(0.00068)	ND(0.00058)	ND(0.00052)	ND(0.00065)	ND(0.0009)	ND(0.00062)	ND(0.00071)	ND(0.00063)	ND(0.00087)
Dibromofluoromethane						0.0658	0.0637	0.094	0.0678	0.0591	0.079	0.0663	0.058	0.045	0.0423	0.0494	0.0479	0.0395	0.0376	0.0353	0.0445	0.0329	0.048	0.0477	0.06
Dibromomethane					11	ND(0.0011)	ND(0.0016)	ND(0.0019)	ND(0.0013)	ND(0.0011)	ND(0.0015)	ND(0.0013)	ND(0.0011)	ND(0.00085)	ND(0.00082)	ND(0.0011)	ND(0.00087)	ND(0.00074)	ND(0.00067)	ND(0.00084)	ND(0.0012)	ND(0.0008)	ND(0.00091)	ND(0.00082)	ND(0.0011)
Dichlorodifluoromethane					40	ND(0.0019)	ND(0.0027)	ND(0.0032)	ND(0.0022)	ND(0.0019)	ND(0.0025)	ND(0.0021)	ND(0.0019)	ND(0.0014)	ND(0.0014)	ND(0.0018)	ND(0.0014)	ND(0.0012)	ND(0.0011)	ND(0.0014)	ND(0.0019)	ND(0.0013)	ND(0.0015)	ND(0.0014)	ND(0.0019)
Ethyl Benzene				0.3	2.7	0.0036	ND(0.0009)	ND(0.0011)	ND(0.00072)	ND(0.00063)	ND(0.00083)	ND(0.0007)	ND(0.00062)	ND(0.00047)	ND(0.00046)	ND(0.00061)	ND(0.00048)	ND(0.00041)	ND(0.00037)	ND(0.00046)	ND(0.00064)	ND(0.00044)	ND(0.0005)	ND(0.00045)	ND(0.00062)
Hexachlorobutadiene					2.2	ND(0.001)	ND(0.0014)	ND(0.0017)	ND(0.0012)	ND(0.001)	ND(0.0013)	ND(0.0011)	ND(0.00099)	ND(0.00076)	ND(0.00073)	ND(0.00098)	ND(0.00077)	ND(0.00066)	ND(0.0006)	ND(0.00074)	ND(0.001)	ND(0.00071)	ND(0.00081)	ND(0.00072)	ND(0.001)
Isopropylbenzene					1100	ND(0.00068)	ND(0.00097)	ND(0.0011)	ND(0.00078)	ND(0.00068)	ND(0.00089)	ND(0.00076)	ND(0.00067)	ND(0.00051)	ND(0.00049)	ND(0.00066)	ND(0.00052)	ND(0.00044)	ND(0.0004)	ND(0.0005)	ND(0.00069)	ND(0.00048)	ND(0.00054)	ND(0.00049)	ND(0.00067)
m + p Xylene				1.75		0.0041	ND(0.0014)	0.0043	ND(0.0012)	0.0025	ND(0.0013)	0.0051	ND(0.00099)	ND(0.00076)	ND(0.00073)	ND(0.00098)	ND(0.00077)	ND(0.00066)	ND(0.0006)	ND(0.00074)	ND(0.001)	ND(0.00071)	ND(0.00081)	ND(0.00072)	ND(0.001)
Methylene Chloride				0.005	5.3	ND(0.0081)	ND(0.012)	ND(0.014)	ND(0.0094)	ND(0.0082)	ND(0.011)	ND(0.0091)	ND(0.008)	ND(0.0062)	ND(0.006)	ND(0.008)	ND(0.0063)	ND(0.0053)	ND(0.0048)	ND(0.006)	ND(0.0084)	ND(0.0058)	ND(0.0066)	ND(0.0059)	ND(0.0081)
Naphthalene					1.8	0.0069	ND(0.002)	ND(0.0023)	ND(0.0016)	ND(0.0014)	ND(0.0018)	ND(0.0015)	ND(0.0014)	ND(0.001)	ND(0.001)	ND(0.0014)	ND(0.001)	ND(0.0009)	ND(0.00082)	ND(0.001)	ND(0.0014)	ND(0.00098)	ND(0.0011)	ND(0.001)	ND(0.0014)
n-Butylbenzene					5100	ND(0.0009)	ND(0.0013)	ND(0.0015)	ND(0.001)	ND(0.00091)	ND(0.0012)	ND(0.001)	ND(0.00089)	ND(0.00068)	ND(0.00066)	ND(0.00088)	ND(0.00069)	ND(0.00059)	ND(0.00054)	ND(0.00067)	ND(0.00093)	ND(0.00064)	ND(0.00073)	ND(0.00065)	ND(0.0009)
n-Propylbenzene					2100	ND(0.00076)	ND(0.0011)	ND(0.0013)	ND(0.00088)	ND(0.00077)	ND(0.001)	ND(0.00086)	ND(0.00075)	ND(0.00058)	ND(0.00056)	ND(0.00075)	ND(0.00059)	ND(0.0005)	ND(0.00045)	ND(0.00057)	ND(0.00078)	ND(0.00054)	ND(0.00061)	ND(0.00055)	ND(0.00076)
o-Xylene				1.75	300	0.0029	ND(0.0009)	ND(0.0011)	ND(0.00072)	ND(0.00063)	ND(0.00083)	ND(0.0007)	ND(0.00062)	ND(0.00047)	ND(0.00046)	ND(0.00061)	ND(0.00048)	ND(0.00041)	ND(0.00037)	ND(0.00046)	ND(0.00064)	ND(0.00044)	ND(0.0005)	ND(0.00045)	ND(0.00062)
p-Isopropyltoluene						ND(0.0009)	ND(0.0013)	ND(0.0015)	ND(0.001)	ND(0.00091)	ND(0.0012)	ND(0.001)	ND(0.00089)	ND(0.00068)	ND(0.00066)	ND(0.00088)	ND(0.00069)	ND(0.00059)	ND(0.00054)	ND(0.00067)	ND(0.00093)	ND(0.00064)	ND(0.00073)	ND(0.00065)	ND(0.0009)
sec-Butylbenzene						ND(0.00084)	ND(0.0012)	ND(0.0014)	ND(0.00097)	ND(0.00085)	ND(0.0011)	ND(0.00094)	ND(0.00083)	ND(0.00063)	ND(0.00061)	ND(0.00082)	ND(0.00065)	ND(0.00055)	ND(0.0005)	ND(0.00062)	ND(0.00086)	ND(0.0006)	ND(0.00068)	ND(0.00061)	ND(0.00084)
Styrene				0.1	3600	ND(0.00072)	ND(0.001)	ND(0.0012)	ND(0.00084)	ND(0.00073)	ND(0.00096)	ND(0.00081)	ND(0.00072)	ND(0.00055)	ND(0.00053)	ND(0.00071)	ND(0.00056)	ND(0.00048)	ND(0.00043)	ND(0.00054)	ND(0.00075)	ND(0.00052)	ND(0.00058)	ND(0.00053)	ND(0.00072)
tert-Butylbenzene						ND(0.00078)	ND(0.0011)	ND(0.0013)	ND(0.00089)	ND(0.00078)	ND(0.001)	ND(0.00087)	ND(0.00077)	ND(0.00059)	ND(0.00057)	ND(0.00076)	ND(0.0006)	ND(0.00051)	ND(0.00046)	ND(0.00058)	ND(0.0008)	ND(0.00055)	ND(0.00062)	ND(0.00056)	ND(0.00077)
Tetrachloroethylene				0.005	0.26	ND(0.00061)	ND(0.00088)	ND(0.001)	ND(0.00071)	ND(0.00062)	ND(0.00081)	ND(0.00069)	ND(0.0006)	ND(0.00046)	ND(0.00045)	ND(0.0006)	ND(0.00047)	ND(0.0004)	ND(0.00037)	ND(0.00046)	ND(0.00063)	ND(0.00044)	ND(0.00049)	ND(0.00044)	ND(0.00061)
Toluene				0.15	4500	ND(0.00062)	ND(0.0009)	ND(0.0011)	ND(0.00072)	ND(0.00063)	0.0035	0.0034	0.0067	ND(0.00047)	ND(0.00046)	ND(0.00061)	ND(0.00048)	ND(0.00041)	ND(0.00037)	ND(0.00046)	ND(0.00064)	ND(0.00044)	ND(0.0005)	ND(0.00045)	ND(0.00062)
Toluene-d8						0.0608	0.0843	0.103	0.0711	0.0611	0.0816	0.0686	0.0611	0.0464	0.0445	0.0586	0.047	0.0393	0.0368	0.0458	0.0601	0.043	0.0494	0.0447	0.0599
trans-1,2-Dichloroethene				0.01	69	ND(0.00088)	ND(0.0013)	ND(0.0015)	ND(0.001)	ND(0.00088)	ND(0.0012)	ND(0.00098)	ND(0.00086)	ND(0.00066)	ND(0.00064)	ND(0.00086)	ND(0.00068)	ND(0.00058)	ND(0.00052)	ND(0.00065)	ND(0.0009)	ND(0.00062)	ND(0.00071)	ND(0.00063)	ND(0.00087)
trans-1,3-Dichloropropene				0.0005		ND(0.00076)	ND(0.0011)	ND(0.0013)	ND(0.00088)	ND(0.00077)	ND(0.001)	ND(0.00086)	ND(0.00075)	ND(0.00058)	ND(0.00056)	ND(0.00075)	ND(0.00059)	ND(0.0005)	ND(0.00045)	ND(0.00057)	ND(0.00078)	ND(0.00054)	ND(0.00061)	ND(0.00055)	ND(0.00076)
Trichloroethylene	204	2040		0.005	0.64	ND(0.00062)	ND(0.0009)	ND(0.0011)	ND(0.00072)	ND(0.00063)	ND(0.00083)	ND(0.0007)	ND(0.00062)	ND(0.00047)	ND(0.00046)	ND(0.00061)	ND(0.00048)	ND(0.00041)	ND(0.00037)	ND(0.00046)	ND(0.00064)	ND(0.00044)	ND(0.0005)	ND(0.00045)	ND(0.00062)
Trichlorofluoromethane				0.15	340	ND(0.00068)	ND(0.00097)	ND(0.0011)	ND(0.00078)	ND(0.00068)	ND(0.00089)	ND(0.00076)	ND(0.00067)	ND(0.00051)	ND(0.00049)	ND(0.00066)	ND(0.00052)	ND(0.00044)	ND(0.0004)	ND(0.0005)	ND(0.00069)	ND(0.00048)	ND(0.00054)	ND(0.00049)	ND(0.00067)
Vinyl Chloride				0.0005	0.17	ND(0.0011)	ND(0.0016)	ND(0.0019)	ND(0.0013)	ND(0.0011)	ND(0.0015)	ND(0.0013)	ND(0.0011)	ND(0.00086)	ND(0.00083)	ND(0.0011)	ND(0.00088)	ND(0.00075)	ND(0.00068)	ND(0.00085)	ND(0.0012)	ND(0.00081)	ND(0.00092)	ND(0.00082)	ND(0.0011)
8260B/5035 MEOH-5035																									
dry weight (mg/kg dry wt)																									
1,1,1,2-Tetrachloroethane					0.93																				
1,1,1-Trichloroethane					3800																				
1,1,2,2-Tetrachloroethane				0.001	0.28																				
1,1,2-Trichloroethane					0.53																				
1,1-Dichloroethane				0.005	1.7																				
1,1-Dichloroethene				0.006	110																				
1,1-Dichloropropene																									
1,2,3-Trichlorobenzene					49																				
1,2,3-Trichloropropane					0.0095																				
1,2,4-Trichlorobenzene					9.9																				
1,2,4-Trimethylbenzene					26																				
1,2-Dibromo-3-chloropropane				0.0002	0.0069																				
1,2-Dibromoethane (EDB)				5E-05	0.017																				
1,2-Dichlorobenzene				0.6	980																				
1,2-Dichloroethane				0.0005	0.22																				
1,2-Dichloropropane				0.005	0.47																				
1,3,5-Trimethylbenzene					1000																				
1,3-Dichlorobenzene																									
1,3-Dichloropropane					2000																				
1,4-Dichlorobenzene				0.0005	1.2																				
2,2-Dichloropropane																									
2-Chlorotoluene					2000																				
4-Bromofluorobenzene																									
4-Chlorotoluene					2000																				
Benzene				0.001	0.54																				
Bromobenzene					180																				

Table 1 - Summary of Soil Sampling Results
Western Environmental, Inc.
65-150 Gene Welmas Drive
Mecca, CA 92254

Parameter	California Regulatory Limits				Region 9 Screening Limits	Sampling Locations																			
	CSTLC (mg/L)	CTTLC (mg/kg)	CHHSL (mg/kg)	MCL (mg/L)	Industrial Soil (mg/kg)	Clean Samples																			
Lab Sample ID						298460-001	298460-002	298460-003	298460-004	298460-005	298460-006	298460-007	298460-008	298460-009	298460-010	298460-011	298460-012	298460-013	298460-014	298460-015	298460-016	298460-017	298460-018	298460-019	298460-020
Customer Sample ID						GL001-S001	GL002-S002	GL003-S003	GL004-S004	GL005-S005	GL006-S006	GL007-S007	GL008-S008	GL009-S009	GL010-S010	GL011-S011	GL012-S012	GL013-S013	GL014-S014	GL015-S015	GL016-S016	GL017-S017	GL018-S018	GL019-S019	GL020-S020
Sampling Date						12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/15/11	12/15/11	12/15/11	12/15/11	12/15/11	12/15/11	12/15/11
Sample Time						8:35:00	9:14:00	10:02:00	10:31:00	11:10:00	12:48:00	13:08:00	13:38:00	14:14:00	14:51:00	15:15:00	15:29:00	14:04:00	7:04:00	7:36:00	8:31:00	9:36:00	11:11:00	13:22:00	15:30:00
Bromochloromethane					68																				
Bromodichloromethane				0.08*	0.14																				
Bromoform				0.08*	22																				
Bromomethane					3.2																				
Carbon Tetrachloride				0.0005	0.3																				
Chlorobenzene				0.07	140																				
Chloroethane					6100																				
Chloroform				0.08*	0.15																				
Chloromethane					50																				
cis-1,2-Dichloroethene				0.006	200																				
cis-1,3-Dichloropropene				0.0005																					
Dibromochloromethane				0.08*	0.33																				
Dibromofluoromethane																									
Dibromomethane					11																				
Dichlorodifluoromethane					40																				
Ethyl Benzene				0.3	2.7																				
Hexachlorobutadiene					2.2																				
Isopropylbenzene					1100																				
m + p Xylene				1.75																					
Methylene Chloride				0.005	5.3																				
Naphthalene					1.8																				
n-Butylbenzene					5100																				
n-Propylbenzene					2100																				
o-Xylene				1.75	300																				
p-Isopropyltoluene																									
sec-Butylbenzene																									
Styrene				0.1	3600																				
tert-Butylbenzene																									
Tetrachloroethylene				0.005	0.26																				
Toluene				0.15	4500																				
Toluene-d8																									
trans-1,2-Dichloroethene				0.01	69																				
trans-1,3-Dichloropropene				0.0005																					
Trichloroethylene	204	2040		0.005	0.64																				
Trichlorofluoromethane				0.15	340																				
Vinyl Chloride				0.0005	0.17																				
8270C/3545																									
dry weight (mg/kg dry wt)																									
1,2,4-Trichlorobenzene					9.9	ND(0.1)	ND(0.4)	ND(0.5)	ND(0.59)	ND(0.5)															
1,2-Dichlorobenzene					980	ND(0.12)	ND(0.48)	ND(0.6)	ND(0.71)	ND(0.6)															
1,2-Diphenylhydrazine					0.22	ND(0.12)	ND(0.48)	ND(0.6)	ND(0.71)	ND(0.6)															
1,3-Dichlorobenzene						ND(0.18)	ND(0.72)	ND(0.9)	ND(1.1)	ND(0.9)															
1,4-Dichlorobenzene					1.2	ND(0.13)	ND(0.52)	ND(0.65)	ND(0.77)	ND(0.65)															
2,4,5-Trichlorophenol					6200	ND(0.26)	ND(1)	ND(1.3)	ND(1.5)	ND(1.3)															
2,4,6-Tribromophenol						13.7	12.6	5.42	20.1	5.64															
2,4,6-Trichlorophenol					16	ND(0.15)	ND(0.6)	ND(0.75)	ND(0.89)	ND(0.75)															
2,4-Dichlorophenol					180	ND(0.12)	ND(0.48)	ND(0.6)	ND(0.71)	ND(0.6)															
2,4-Dimethylphenol					1200	ND(0.2)	ND(0.8)	ND(1)	ND(1.2)	ND(1)															
2,4-Dinitrophenol					120	ND(0.22)	ND(0.88)	ND(1.1)	ND(1.3)	ND(1.1)															
2,4-Dinitrotoluene					0.55	ND(0.16)	ND(0.64)	ND(0.8)	ND(0.95)	ND(0.8)															
2,6-Dinitrotoluene					62	ND(0.19)	ND(0.76)	ND(0.95)	ND(1.1)	ND(0.95)															
2-Chloronaphthalene					8200	ND(0.13)	ND(0.52)	ND(0.65)	ND(0.77)	ND(0.65)															
2-Chlorophenol					510	ND(0.14)	ND(0.56)	ND(0.7)	ND(0.83)	ND(0.7)															
2-Fluorobiphenyl						5.55	5.19	2.52	7.3	2.42															
2-Fluorophenol						10	8.92	4.27	12.9	4.18															
2-Methylnaphthalene					410	ND(0.14)	ND(0.56)	ND(0.7)	ND(0.83)	ND(0.7)															
2-Methylphenol					3100	ND(0.16)	ND(0.64)	ND(0.8)	ND(0.95)	ND(0.8)															
2-Nitroaniline					600	ND(0.12)	ND(0.48)	ND(0.6)	ND(0.71)	ND(0.6)															
2-Nitrophenol						ND(0.12)	ND(0.48)	ND(0.6)	ND(0.71)	ND(0.6)															
3,3'-Dichlorobenzidine					0.38	ND(0.3)	ND(1.2)	ND(1.5)	ND(1.8)	ND(1.5)															
3-Nitroaniline						ND(0.15)	ND(0.6)	ND(0.75)	ND(0.89)	ND(0.75)															
4,6-Dinitro-2-methylphenol					4.9	ND(0.22)	ND(0.88)	ND(1.1)	ND(1.3)	ND(1.1)															
4-Bromophenyl phenyl ether						ND(0.15)	ND(0.6)	ND(0.75)	ND(0.89)	ND(0.75)															
4-Chloro-3-methylphenol					6200	ND(0.14)	ND(0.56)	ND(0.7)	ND(0.83)	ND(0.7)															
4-Chloroaniline					0.86	ND(0.24)	ND(0.96)	ND(1.2)	ND(1.4)	ND(1.2)															
4-Chlorophenyl phenyl ether						ND(0.17)	ND(0.68)	ND(0.85)	ND(1)	ND(0.85)															
4-Methylphenol					310	ND(0.16)	ND(0.64)	ND(0.8)	ND(0.95)	ND(0.8)															
4-Nitroaniline					8.6	ND(0.18)	ND(0.72)	ND(0.9)	ND(1.1)	ND(0.9)															
4-Nitrophenol						ND(0.28)	ND(1.1)	ND(1.4)	ND(1.7)	ND(1.4)															
Acenaphthene					3300	ND(0.12)	ND(0.48)	ND(0.6)	ND(0.71)	ND(0.6)															
Acenaphthylene						ND(0.14)	ND(0.56)	ND(0.7)	ND(0.83)	ND(0.7)															
Aniline					30	ND(0.17)	ND(0.68)	ND(0.85)	ND(1)	ND(0.85)															
Anthracene					17000	ND(0.16)	ND(0.64)	ND(0.8)	ND(0.95)	ND(0.8)															
Benzidine					0.00075	ND(1.3)	ND(5.3)	ND(6.6)	ND(7.8)	ND(6.6)															
Benzo(a)anthracene					0.21	ND(0.14)	ND(0.56)	ND(0.7)	ND(0.83)	ND(0.7)															
Benzo(a)pyrene			0.13	0.0002	0.021	ND(0.11)	ND(0.44)	ND(0.55)	ND(0.65)	ND(0.55)															
Benzo(b)fluoranthene					0.21	ND(0.1)	ND(0.4)	ND(0.5)	ND(0.59)	ND(0.5)															
Benzo(g,h,i)perylene						ND(0.22)	ND(0.88)	ND(1.1)	ND(1.3)	ND(1.1)															
Benzo(k)fluoranthene					2.1	ND(0.14)	ND(0.56)	ND(0.7)	ND(0.83)	ND(0.7)															
Benzoic acid					250000	ND(0.3)	ND(1.2)	ND(1.5)	ND(1.8)	ND(1.5)															
Benzyl alcohol					6200	ND(0.4)	ND(1.6)	ND(2)	ND(2.4)	ND(2)															
Bis(2-chloroethoxy)methane					180	ND(0.14)	ND(0.56)	ND(0.7)	ND(0.83)	ND(0.7)															
Bis(2-chloroethyl)ether					0.1	ND(0.12)	ND(0.48)	ND(0.6)	ND(0.71)	ND(0.6)															
Bis(2-chloroisopropyl)ether					2.2	ND(0.12)	ND(0.48)	ND(0.6)	ND(0.71)	ND(0.6)															
Bis(2-ethylhexyl)phthalate					12	ND(0.18)	ND(0.72)	ND(0.9)	ND(1.1)	ND(0.9)															
Butyl benzyl phthalate					91	ND(0.16)	ND(0.64)	ND(0.8)	ND(0.95)	ND(0.8)															
Chrysene					21	ND(0.15)	ND(0.6)	ND(0.75)	ND(0.89)	ND(0.75)															
Dibenz(a,h)anthracene					0.021	ND(0.2)	ND(0.8)	ND(1)	ND(1.2)	ND(1)															
Dibenzofuran					100	ND(0.12)	ND(0.48)	ND(0.6)	ND(0.71)	ND(0.6)															
Diethyl phthalate					49000	ND(0.19)	ND(0.76)	ND(0.95)	ND(1.1)	ND(0.95)															
Dimethyl phthalate						ND(0.13)	ND(0.52)	ND(0.65)	ND(0.77)	ND(0.65)															
Di-n-butyl phthalate					6200	ND(0.18)	ND(0.72)	ND(0.9)	ND(1.1)	ND(0.9)															
Di-n-octyl phthalate						ND(0.18)	ND(0.72)	ND(0.9)	ND(1.1)	ND(0.9)															
Fluoranthene					2200	ND(0.14)	ND(0.56)	ND(0.7)	ND(0.83)	ND(0.7)															

Table 1 - Summary of Soil Sampling Results
Western Environmental, Inc.
65-150 Gene Welmas Drive
Mecca, CA 92254

Parameter	California Regulatory Limits				Region 9 Screening Limits	Sampling Locations																			
	CSTLC (mg/L)	CTTLC (mg/kg)	CHHSL (mg/kg)	MCL (mg/L)	Industrial Soil (mg/kg)	Clean Samples																			
Lab Sample ID						298460-001	298460-002	298460-003	298460-004	298460-005	298460-006	298460-007	298460-008	298460-009	298460-010	298460-011	298460-012	298460-013	298460-014	298460-015	298460-016	298460-017	298460-018	298460-019	298460-020
Customer Sample ID						GL001-S001	GL002-S002	GL003-S003	GL004-S004	GL005-S005	GL006-S006	GL007-S007	GL008-S008	GL009-S009	GL010-S010	GL011-S011	GL012-S012	GL013-S013	GL014-S014	GL015-S015	GL016-S016	GL017-S017	GL018-S018	GL019-S019	GL020-S020
Sampling Date						12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/15/11	12/15/11	12/15/11	12/15/11	12/15/11	12/15/11	12/15/11
Sample Time						8:35:00	9:14:00	10:02:00	10:31:00	11:10:00	12:48:00	13:08:00	13:38:00	14:14:00	14:51:00	15:15:00	15:29:00	14:04:00	7:04:00	7:36:00	8:31:00	9:36:00	11:11:00	13:22:00	15:30:00
Fluorene					2200	ND(0.14)	ND(0.56)	ND(0.7)	ND(0.83)	ND(0.7)															
Hexachlorobenzene				0.001	0.11	ND(0.14)	ND(0.56)	ND(0.7)	ND(0.83)	ND(0.7)															
Hexachlorobutadiene					2.2	ND(0.12)	ND(0.48)	ND(0.6)	ND(0.71)	ND(0.6)															
Hexachlorocyclopentadiene				0.05	370	ND(0.18)	ND(0.72)	ND(0.9)	ND(1.1)	ND(0.9)															
Hexachloroethane					4.3	ND(0.13)	ND(0.52)	ND(0.65)	ND(0.77)	ND(0.65)															
Indeno(1,2,3-cd)pyrene					0.21	ND(0.26)	ND(1)	ND(1.3)	ND(1.5)	ND(1.3)															
Isophorone					180	ND(0.12)	ND(0.48)	ND(0.6)	ND(0.71)	ND(0.6)															
Naphthalene					1.8	ND(0.12)	ND(0.48)	ND(0.6)	ND(0.71)	ND(0.6)															
Nitrobenzene					2.4	ND(0.14)	ND(0.56)	ND(0.7)	ND(0.83)	ND(0.7)															
Nitrobenzene-d5						4.97	4.68	2.33	6.8	2.29															
N-Nitroso-di-n-propylamine					0.025	ND(0.14)	ND(0.56)	ND(0.7)	ND(0.83)	ND(0.7)															
N-Nitrosodiphenylamine					35	ND(0.16)	ND(0.64)	ND(0.8)	ND(0.95)	ND(0.8)															
Pentachlorophenol	1.7	17	13	0.001	0.27	ND(0.3)	ND(1.2)	ND(1.5)	ND(1.8)	ND(1.5)															
Phenanthrene						ND(0.12)	ND(0.48)	ND(0.6)	ND(0.71)	ND(0.6)															
Phenol					18000	ND(0.18)	ND(0.72)	ND(0.9)	ND(1.1)	ND(0.9)															
Phenol-d6						10.8	9.47	4.76	13.9	4.36															
Pyrene					1700	ND(0.16)	ND(0.64)	ND(0.8)	ND(0.95)	ND(0.8)															
Terphenyl-d14						5.8	5.7	2.55	8.17	2.65															
8270C/3546																									
dry weight (mg/kg dry wt)																									
1,2,4-Trichlorobenzene					9.9						ND(0.3)	ND(0.3)	ND(0.6)	ND(0.6)	ND(0.3)	ND(0.4)	ND(0.4)	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.3)	ND(0.3)
1,2-Dichlorobenzene					980						ND(0.36)	ND(0.36)	ND(0.72)	ND(0.72)	ND(0.36)	ND(0.48)	ND(0.48)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.96)	ND(0.36)	ND(0.36)
1,2-Diphenylhydrazine					0.22						ND(0.36)	ND(0.36)	ND(0.72)	ND(0.72)	ND(0.36)	ND(0.48)	ND(0.48)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.96)	ND(0.36)	ND(0.36)
1,3-Dichlorobenzene											ND(0.54)	ND(0.54)	ND(1.1)	ND(1.1)	ND(0.54)	ND(0.72)	ND(0.72)	ND(0.54)	ND(0.54)	ND(0.54)	ND(0.54)	ND(0.54)	ND(1.4)	ND(0.54)	ND(0.54)
1,4-Dichlorobenzene					1.2						ND(0.39)	ND(0.39)	ND(0.78)	ND(0.78)	ND(0.39)	ND(0.52)	ND(0.52)	ND(0.39)	ND(0.39)	ND(0.39)	ND(0.39)	ND(0.39)	ND(1)	ND(0.39)	ND(0.39)
2,4,5-Trichlorophenol					6200						ND(0.78)	ND(0.78)	ND(1.6)	ND(1.6)	ND(0.78)	ND(1)	ND(1)	ND(0.78)	ND(0.78)	ND(0.78)	ND(0.78)	ND(0.78)	ND(2.1)	ND(0.78)	ND(0.78)
2,4,6-Tribromophenol											8.78	8.52	17.8	18	8.13	8.61	10.3	8.09	9.48	7.72	6.52	7.46	13.2	8.94	8.5
2,4,6-Trichlorophenol					16						ND(0.45)	ND(0.45)	ND(0.9)	ND(0.9)	ND(0.45)	ND(0.6)	ND(0.6)	ND(0.45)	ND(0.45)	ND(0.45)	ND(0.45)	ND(0.45)	ND(1.2)	ND(0.45)	ND(0.45)
2,4-Dichlorophenol					180						ND(0.36)	ND(0.36)	ND(0.72)	ND(0.72)	ND(0.36)	ND(0.48)	ND(0.48)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.96)	ND(0.36)	ND(0.36)
2,4-Dimethylphenol					1200						ND(0.6)	ND(0.6)	ND(1.2)	ND(1.2)	ND(0.6)	ND(0.8)	ND(0.8)	ND(0.6)	ND(0.6)	ND(0.6)	ND(0.6)	ND(0.6)	ND(1.6)	ND(0.6)	ND(0.6)
2,4-Dinitrophenol					120						ND(0.66)	ND(0.66)	ND(1.3)	ND(1.3)	ND(0.66)	ND(0.88)	ND(0.88)	ND(0.66)	ND(0.66)	ND(0.66)	ND(0.66)	ND(0.66)	ND(1.8)	ND(0.66)	ND(0.66)
2,4-Dinitrotoluene					0.55						ND(0.48)	ND(0.48)	ND(0.96)	ND(0.96)	ND(0.48)	ND(0.64)	ND(0.64)	ND(0.48)	ND(0.48)	ND(0.48)	ND(0.48)	ND(0.48)	ND(1.3)	ND(0.48)	ND(0.48)
2,6-Dinitrotoluene					62						ND(0.57)	ND(0.57)	ND(1.1)	ND(1.1)	ND(0.57)	ND(0.76)	ND(0.76)	ND(0.57)	ND(0.57)	ND(0.57)	ND(0.57)	ND(0.57)	ND(1.5)	ND(0.57)	ND(0.57)
2-Chloronaphthalene					8200						ND(0.39)	ND(0.39)	ND(0.78)	ND(0.78)	ND(0.39)	ND(0.52)	ND(0.52)	ND(0.39)	ND(0.39)	ND(0.39)	ND(0.39)	ND(0.39)	ND(1)	ND(0.39)	ND(0.39)
2-Chlorophenol					510						ND(0.42)	ND(0.42)	ND(0.84)	ND(0.84)	ND(0.42)	ND(0.56)	ND(0.56)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(1.1)	ND(0.42)	ND(0.42)
2-Fluorobiphenyl											3.75	4	8.48	7.75	3.6	4.49	5.32	4.18	4.4	4.53	4.35	4.6	5.98	4.56	4.54
2-Fluorophenol											6.95	7.26	15	14.1	6.99	8.29	10.1	7.21	7.79	7.56	7.35	8.01	9.7	7.94	7.98
2-Methylnaphthalene					410						ND(0.42)	ND(0.42)	ND(0.84)	ND(0.84)	ND(0.42)	ND(0.56)	ND(0.56)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(1.1)	ND(0.42)	ND(0.42)
2-Methylphenol					3100						ND(0.48)	ND(0.48)	ND(0.96)	ND(0.96)	ND(0.48)	ND(0.64)	ND(0.64)	ND(0.48)	ND(0.48)	ND(0.48)	ND(0.48)	ND(0.48)	ND(1.3)	ND(0.48)	ND(0.48)
2-Nitroaniline					600						ND(0.36)	ND(0.36)	ND(0.72)	ND(0.72)	ND(0.36)	ND(0.48)	ND(0.48)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.96)	ND(0.36)	ND(0.36)
2-Nitrophenol											ND(0.36)	ND(0.36)	ND(0.72)	ND(0.72)	ND(0.36)	ND(0.48)	ND(0.48)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.96)	ND(0.36)	ND(0.36)
3,3'-Dichlorobenzidine					0.38						ND(0.9)	ND(0.9)	ND(1.8)	ND(1.8)	ND(0.9)	ND(1.2)	ND(1.2)	ND(0.9)	ND(0.9)	ND(0.9)	ND(0.9)	ND(0.9)	ND(2.4)	ND(0.9)	ND(0.9)
3-Nitroaniline											ND(0.45)	ND(0.45)	ND(0.9)	ND(0.9)	ND(0.45)	ND(0.6)	ND(0.6)	ND(0.45)	ND(0.45)	ND(0.45)	ND(0.45)	ND(0.45)	ND(1.2)	ND(0.45)	ND(0.45)
4,6-Dinitro-2-methylphenol					4.9						ND(0.66)	ND(0.66)	ND(1.3)	ND(1.3)	ND(0.66)	ND(0.88)	ND(0.88)	ND(0.66)	ND(0.66)	ND(0.66)	ND(0.66)	ND(0.66)	ND(1.8)	ND(0.66)	ND(0.66)
4-Bromophenyl phenyl ether											ND(0.45)	ND(0.45)	ND(0.9)	ND(0.9)	ND(0.45)	ND(0.6)	ND(0.6)	ND(0.45)	ND(0.45)	ND(0.45)	ND(0.45)	ND(0.45)	ND(1.2)	ND(0.45)	ND(0.45)
4-Chloro-3-methylphenol					6200						ND(0.42)	ND(0.42)	ND(0.84)	ND(0.84)	ND(0.42)	ND(0.56)	ND(0.56)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(1.1)	ND(0.42)	ND(0.42)
4-Chloroaniline					0.86						ND(0.72)	ND(0.72)	ND(1.4)	ND(1.4)	ND(0.72)	ND(0.96)	ND(0.96)	ND(0.72)	ND(0.72)	ND(0.72)	ND(0.72)	ND(0.72)	ND(1.9)	ND(0.72)	ND(0.72)
4-Chlorophenyl phenyl ether											ND(0.51)	ND(0.51)	ND(1)	ND(1)	ND(0.51)	ND(0.68)	ND(0.68)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(1.4)	ND(0.51)	ND(0.51)
4-Methylphenol					310						ND(0.48)	ND(0.48)	ND(0.96)	ND(0.96)	ND(0.48)	ND(0.64)	ND(0.64)	ND(0.48)	ND(0.48)	ND(0.48)	ND(0.48)	ND(0.48)	ND(1.3)	ND(0.48)	ND(0.48)
4-Nitroaniline					8.6						ND(0.54)	ND(0.54)	ND(1.1)	ND(1.1)	ND(0.54)	ND(0.72)	ND(0.72)	ND(0.54)	ND(0.54)	ND(0.54)	ND(0.54)	ND(0.54)	ND(1.4)	ND(0.54)	ND(0.54)
4-Nitrophenol											ND(0.84)	ND(0.84)	ND(1.7)	ND(1.7)	ND(0.84)	ND(1.1)	ND(1.1)	ND(0.84)	ND(0.84)	ND(0.84)	ND(0.84)	ND(0.84)	ND(2.2)	ND(0.84)	ND(0.84)
Acenaphthene					3300						ND(0.36)	ND(0.36)	ND(0.72)	ND(0.72)	ND(0.36)	ND(0.48)	ND(0.48)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.96)	ND(0.36)	ND(0.36)
Acenaphthylene											ND(0.42)	ND(0.42)	ND(0.84)	ND(0.84)	ND(0.42)	ND(0.56)	ND(0.56)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(1.1)	ND(0.42)	ND(0.42)
Aniline					30						ND(0.51)	ND(0.51)	ND(1)	ND(1)	ND(0.51)	ND(0.68)	ND(0.68)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(0.51)	ND(1.4)	ND(0.51)	ND(0.51)
Anthracene					17000						ND(0.48)	ND(0.48)	ND(0.96)	ND(0.96)	ND(0.48)	ND(0.64)	ND(0.64)	ND(0.48)	ND(0.48)	ND(0.48)	ND(0.48)	ND(0.48)	ND(1.3)	ND(0.48)	ND(0.48)
Benzidine					0.00075						ND(4)	ND(4)	ND(7.9)	ND(7.9)	ND(4)	ND(5.3)	ND(5.3)	ND(4)	ND(4)	ND(4)	ND(4)	ND(4)	ND(11)	ND(4)	ND(4)
Benzo(a)anthracene					0.21						ND(0.42)	ND(0.42)	ND(0.84)	ND(0.84)	ND(0.42)	ND(0.56)	ND(0.56)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(1.1)	ND(0.42)	ND(0.42)
Benzo(a)pyrene			0.13	0.0002	0.021						ND(0.33)	ND(0.33)	ND(0.66)	ND(0.66)	ND(0.33)	ND(0.44)	ND(0.44)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.88)	ND(0.33)	ND(0.33)
Benzo(b)fluoranthene					0.21						ND(0.3)	ND(0.3)	ND(0.6)	ND(0.6)	ND(0.3)	ND(0.4)	ND(0.4)	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.8)	ND(0.3)	ND(0.3)
Benzo(g,h,i)perylene											ND(0.66)	ND(0.66)	ND(1.3)	ND(1.3)	ND(0.66)	ND(0.88)	ND(0.88)	ND(0.66)	ND(0.66)	ND(0.66)	ND(0.66)	ND(0.66)	ND(1.8)	ND(0.66)	ND(0.66)
Benzo(k)fluoranthene					2.1						ND(0.42)	ND(0.42)	ND(0.84)	ND(0.84)	ND(0.42)	ND(0.56)	ND(0.56)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(1.1)	ND(0.42)	ND(0.42)
Benzoic acid					250000						ND(0.9)	ND(0.9)	ND(1.8)	ND(1.8)	ND(0.9)	ND(1.2)	ND(1.2)	ND(0.9)	ND(0.9)	ND(0.9)	ND(0.9)	ND(0.9)	ND(2.4)	ND(0.9)	ND(0.9)
Benzyl alcohol					6200						ND(1.2)	ND(1.2)	ND(2.4)	ND(2.4)	ND(1.2)	ND(1.6)	ND(1.6)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	ND(3.2)	ND(1.2)	ND(1.2)
Bis(2-chloroethoxy)methane					180						ND(0.42)	ND(0.42)	ND(0.84)	ND(0.84)	ND(0.42)	ND(0.56)	ND(0.56)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(1.1)	ND(0.42)	ND(0.42)
Bis(2-chloroethyl)ether					0.1						ND(0.36)	ND(0.36)	ND(0.72)	ND(0.72)	ND(0.36)	ND(0.48)	ND(0.48)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.96)	ND(0.36)	ND(0.36)
Bis(2-chloroisopropyl)ether					2.2						ND(0.36)	ND(0.36)	ND(0.72)	ND(0.72)	ND(0.36)	ND(0.48)	ND(0.48)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.96)	ND(0.36)	ND(0.36)
Bis(2-ethylhexyl)phthalate					12						ND(0.54)	ND(0.54)	ND(1.1)	ND(1.1)	ND(0.54)	ND(0.72)	ND(0.72)	ND(0.54)	ND(0.54)	ND(0.54)	ND(0.54)	ND(0.54)	ND(1.4)	ND(0.54)	ND(0.54)
Butyl benzyl phthalate					91						ND(0.48)	ND(0.48)	ND(0.96)	ND(0.96)	ND(0.48)	ND(0.64)	ND(0.64)	ND(0.48)	ND(0.48)	ND(0.48)	ND(0.48)	ND(0.48)	ND(1.3)	ND(0.48)	ND(0.48)
Chrysene					21						ND(0.45)	ND(0.45)	ND(0.9)	ND(0.9)	ND(0.45)	ND(0.6)	ND(0.6)	ND(0.45)	ND(0.45)	ND(0.45)	ND(0.45)	ND(0.45)	ND(1.2)	ND(0.45)	ND(0.45)
Dibenz(a,h)anthracene					0.021						ND(0.6)	ND(0.6)	ND(1.2)	ND(1.2)	ND(0.6)	ND(0.8)	ND(0.8)	ND(0.6)	ND(0.6)	ND(0.6)	ND(0.6)	ND(0.6)	ND(1.6)	ND(0.6)	ND(0.6)
Dibenzofuran					100						ND(0.36)	ND(0.36)	ND(0.72)	ND(0.72)	ND(0.36)	ND(0.48)	ND(0.48)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.96)	ND(0.36)	ND(0.36)
Diethyl phthalate					49000						ND(0.57)	ND(0.57)	ND(1.1)	ND(1.1)	ND(0.57)	ND(0.76)	ND(0.76)	ND(0.57)	ND(0.57)	ND(0.57)	ND(0.57)	ND(0.57)	ND(1.5)	ND(0.57)	ND(0.57)
Dimethyl phthalate											ND(0.39)	ND(0.39)	ND(0.78)	ND(0.78)	ND(0.39)	ND(0.52)	ND(0.52)	ND(0.39)	ND(0.39)	ND(0.39)	ND(0.39)	ND(0.39)	ND(1)	ND(0.39)	ND(0.39)
Di-n-butyl phthalate					6200						ND(0.54)	ND(0.54)	ND(1.1)	ND(1.1)	ND(0.54)	ND(0.72)	ND(0.72)	ND(0.54)	ND(0.54)	ND(0.54)	ND(0.54)	ND(0.54)	ND(1.4)	ND(0.54)	ND(0.54)
Di-n-octyl phthalate											ND(0.54)	ND(0.54)	ND(1.1)	ND(1.1)	ND(0.54)	ND(0.72)	ND(0.72)	ND(0.54)	ND(0.54)	ND(0.54)	ND(0.54)	ND(0.54)	ND(1.4)	ND(0.54)	ND(0.54)
Fluoranthene					2200						ND(0.42)	ND(0.42)	ND(0.84)	ND(0.84)	ND(0.42)	ND(0.56)	ND(0.56)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(1.1)	ND(0.42)	ND(0.42)
Fluorene					2200						ND(0.42)	ND(0.42)	ND(0.84)	ND(0.84)	ND(0.42)	ND(0.56)	ND(0.56)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(1.1)	ND(0.42)	ND(0.42)
Hexachlorobenzene				0.001	0.11						ND(0.42)	ND(0.42)	ND(0.84)	ND(0.84)	ND(0.42)	ND(0.56)	ND(0.56)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(1.1)	ND(0.42)	ND(0.42)
Hexachlorobutadiene					2.2						ND(0.36)	ND(0.36)	ND(0.72)	ND(0.72)	ND(0.36)	ND(0.48)	ND(0.48)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.96)	ND(0.36)	ND(0.36)
Hexachlorocyclopentadiene				0.05	370						ND(0.54)	ND(0.54)	ND(1.1)	ND(1.1)	ND(0.54)	ND(0.72)	ND(0.72)	ND(0.54)	ND(0.54)	ND(0.54)	ND(0.54)	ND(0.54)	ND(1.4)	ND(0.54)	ND(0.54)
Hexachloroethane					4.3						ND(0.39)	ND(0.39)	ND(0.78)	ND(0.78)	ND(0.39)	ND(0.52)	ND(0.52)	ND(0.39)	ND(0.39)	ND(0.39)	ND(0.39)	ND(0.39)	ND(1)	ND(0.39)	ND(0.39)
Indeno(1,2,3-cd)pyrene					0.21						ND(0.78)	ND(0.78)	ND(1.6)	ND(1.6)	ND(0.78)	ND(1)	ND(1)	ND(0.78)	ND(0.78)	ND(0.78)	ND(0.78)	ND(0.78)	ND(2.1)	ND(0.78)	ND(0.78)
Isophorone					180						ND(0.36)	ND(0.36)	ND(0.72)	ND(0.72)	ND(0.36)	ND(0.48)	ND(0.48)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.96)	ND(0.36)	ND(0.36)
Naphthalene					1.8						ND(0.36)	ND(0.36)	ND(0.72)	ND(0.72)	ND(0.36)	ND(0.48)	ND(0.48)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.96)	ND(0.36)	ND(0.36)
Nitrobenzene					2.4						ND(0.42)	ND(0.42)	ND(0.84)	ND(0.84)	ND(0.42)	ND(0.56)	ND(0.56)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(1.1)	ND(0.42)	ND(0.42)
Nitrobenzene-d5											3.26	3.26	7.23	6.29	3.17	3.88	4.47	3.46	3.66	3.34	3.31	3.33	4.57	3.29	3.94
N-Nitroso-di-n-propylamine					0.025						ND(0.42)	ND(0.42)	ND(0.84)	ND(0.84)	ND(0.42)	ND(0.56)	ND(0.56)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(1.1)	ND(0.42)	ND(0.42)
N-Nitrosodiphenylamine					35						ND(0.48)	ND(0.48)	ND(0.96)	ND(0.96)	ND(0.48)	ND(0.64)	ND(0.64)	ND(0.48)	ND(0.48)	ND(0.48)	ND(0.48)	ND(0.48)	ND(1.3)	ND(0.48)	ND(0.48)
Pentachlorophenol	1.7	17	13	0.001	0.27						ND(0.9)	ND(0.9)	ND(1.8)	ND(1.8)	ND(0.9)	ND(1.2)	ND(1.2)	ND(0.9)	ND(0.9)	ND(0.9)	ND(0.9)	ND(0.9)	ND(2.4)	ND(0.9)	ND(0.9)
Phenanthrene											ND(0.36)	ND(0.36)	ND(0.72)	ND(0.72)	ND(0.36)	ND(0.48)	ND(0.48)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.96)	ND(0.36)	ND(0.36)
Phenol					18000						7.9	ND(0.54)	ND(1.1)	ND(1.1)	ND(0.54)	ND(0.72)	ND(0.72)	2.4	ND(0.54)	ND(0.54)	ND(0.54)	ND(0.54)	ND(1.4)	ND(0.54)	ND(0.54)
Phenol-d6											7.09	7.34	15.1	14.8	6.98	8.67	10.3	7.43	8.2	8.18	7.6	8.77	11.1	8.35	7.88
Pyrene					1700						ND(0.48)	ND(0.48)	ND(0.96)	ND(0.96)	ND(0.48)	ND(0.64)	ND(0.64)	ND(0.48)	ND(0.48)	ND(0.48)	ND(0.48)	ND(0.48)	ND(1.3)	ND(0.48)	ND(0.48)
Terphenyl-d14											4.78	4.68	9.7	10.2	4.68	5.91	6.57	5.2	5.49	5.72	5.53	5.85	8.67	5.19	5.05

Table 1 - Summary of Soil Sampling Results
Western Environmental, Inc.
65-150 Gene Welmas Drive
Mecca, CA 92254

Parameter	California Regulatory Limits				Region 9 Screening Limits	Sampling Locations																			
	CSTLC (mg/L)	CTTLC (mg/kg)	CHHSL (mg/kg)	MCL (mg/L)	Industrial Soil (mg/kg)	Clean Samples																			
Lab Sample ID						298460-001	298460-002	298460-003	298460-004	298460-005	298460-006	298460-007	298460-008	298460-009	298460-010	298460-011	298460-012	298460-013	298460-014	298460-015	298460-016	298460-017	298460-018	298460-019	298460-020
Customer Sample ID						GL001-S001	GL002-S002	GL003-S003	GL004-S004	GL005-S005	GL006-S006	GL007-S007	GL008-S008	GL009-S009	GL010-S010	GL011-S011	GL012-S012	GL013-S013	GL014-S014	GL015-S015	GL016-S016	GL017-S017	GL018-S018	GL019-S019	GL020-S020
Sampling Date						12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	12/15/11	12/15/11	12/15/11	12/15/11	12/15/11	12/15/11	12/15/11
Sample Time						8:35:00	9:14:00	10:02:00	10:31:00	11:10:00	12:48:00	13:08:00	13:38:00	14:14:00	14:51:00	15:15:00	15:29:00	14:04:00	7:04:00	7:36:00	8:31:00	9:36:00	11:11:00	13:22:00	15:30:00
8310/N_EPA 3545																									
dry weight (mg/kg dry wt)																									
2-Chloroanthracene						0.158	0.352	0.265	0.259	0.187	0.148	0.107	0.26	0.251	0.295	0.275	0.233	0.22	0.276	0.209	0.236	0.311	0.309	0.257	0.278
Acenaphthene					3300	ND(0.056)	ND(0.056)	ND(0.056)	ND(0.056)	ND(0.056)	ND(0.056)	ND(0.056)	ND(0.056)	ND(0.056)	ND(0.056)	ND(0.056)	ND(0.056)	ND(0.056)	ND(0.056)	ND(0.056)	ND(0.056)	ND(0.056)	ND(0.056)	ND(0.056)	ND(0.056)
Acenaphthylene						ND(0.094)	ND(0.094)	ND(0.094)	ND(0.094)	ND(0.094)	ND(0.094)	ND(0.094)	ND(0.094)	ND(0.094)	ND(0.094)	ND(0.094)	ND(0.094)	ND(0.094)	ND(0.094)	ND(0.094)	ND(0.094)	ND(0.094)	ND(0.094)	ND(0.094)	ND(0.094)
Anthracene					17000	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Benzanthracene					0.21	0.042	0.12	ND(0.008)	ND(0.008)	0.076	0.027	ND(0.008)	0.058	0.035	0.076	0.077	0.066	0.11	0.034	0.053	0.099	0.12	0.065	0.093	0.052
Benzo(a)pyrene					0.021	0.054	0.12	ND(0.004)	ND(0.004)	ND(0.004)	0.037	0.013	0.078	0.05	0.09	0.1	0.075	0.18	0.092	0.15	0.24	0.2	0.13	0.2	0.11
Benzo(b)fluoranthene					0.21	0.081	0.16	ND(0.013)	ND(0.013)	0.12	0.052	ND(0.013)	0.039	0.029	0.046	0.051	0.049	0.1	0.034	0.05	0.099	0.089	0.068	0.1	0.058
Benzo(g,h,i)perylene						0.2	0.32	0.13	ND(0.008)	ND(0.008)	0.13	0.066	0.18	0.18	0.25	0.26	0.26	ND(0.008)	ND(0.008)	ND(0.008)	ND(0.008)	ND(0.008)	ND(0.008)	ND(0.008)	ND(0.008)
Benzo(k)fluoranthene					2.1	0.016	0.043	ND(0.005)	ND(0.005)	0.032	0.011	ND(0.005)	0.021	0.016	ND(0.005)	0.028	0.021	0.098	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.072
Chrysene					21	0.031	0.099	ND(0.004)	ND(0.004)	ND(0.004)	0.026	ND(0.004)	0.06	0.038	0.07	0.074	0.066	0.11	0.041	0.064	0.12	0.11	0.082	0.084	0.054
Dibenz(a,h)anthracene					0.021	ND(0.004)	ND(0.004)	ND(0.004)	ND(0.004)	ND(0.004)	ND(0.004)	ND(0.004)	ND(0.004)	ND(0.004)	ND(0.004)	ND(0.004)	ND(0.004)	ND(0.004)	ND(0.004)	ND(0.004)	ND(0.004)	ND(0.004)	ND(0.004)	ND(0.004)	ND(0.004)
Fluoranthene					2200	0.12	0.3	0.074	0.087	0.19	0.078	0.028	0.18	0.13	0.25	0.2	0.2	0.27	0.12	0.2	0.34	0.3	0.28	0.2	0.17
Fluorene					2200	0.021	0.034	0.017	0.015	0.022	0.015	ND(0.008)	0.019	0.019	0.028	ND(0.008)	ND(0.008)	ND(0.008)	ND(0.008)	ND(0.008)	ND(0.008)	0.024	0.045	ND(0.008)	ND(0.008)
Indeno(1,2,3-cd)pyrene					0.21	0.01	0.029	ND(0.006)	ND(0.006)	ND(0.006)	ND(0.006)	ND(0.006)	0.017	0.011	0.022	0.031	0.016	ND(0.006)	ND(0.006)	ND(0.006)	ND(0.006)	ND(0.006)	ND(0.006)	0.13	0.019
Naphthalene					1.8	ND(0.086)	ND(0.086)	ND(0.086)	ND(0.086)	ND(0.086)	ND(0.086)	ND(0.086)	ND(0.086)	ND(0.086)	ND(0.086)	ND(0.086)	ND(0.086)	ND(0.086)	ND(0.086)	ND(0.086)	ND(0.086)	ND(0.086)	ND(0.086)	ND(0.086)	ND(0.086)
Phenanthrene						0.069	0.25	0.048	0.068	0.088	0.059	0.015	0.12	0.083	0.17	0.12	0.12	0.22	0.072	0.17	0.27	0.26	0.26	0.14	0.15
Pyrene					1700	0.21	0.4	0.15	0.14	0.22	0.14	0.07	0.25	0.22	0.32	0.21	0.2	0.44	0.23	0.31	0.49	0.4	0.38	0.36	0.26
Total Cyanide-9014 (mg/L)																									
Total Cyanide (57-12-5)				0.15	2000	ND(0.43)	ND(0.43)	ND(0.43)	ND(0.43)	ND(0.43)	ND(0.43)	ND(0.43)	ND(0.017)	ND(0.017)	ND(0.017)	ND(0.017)	ND(0.017)	ND(0.43)	ND(0.43)	ND(0.43)	ND(0.43)	ND(0.43)	ND(0.43)	ND(0.43)	ND(0.43)
pH-9045C (pH units)																									
pH						8.6	8.6	8.6	7.9	8.4	7.7	7.7	7.7	7.5	8.2	8.7	8.5	8.9	7.8	9	9.2	9.2	8.1	8.9	8.9
STLC-MET (N/A)																									
Extraction						DET	DET	DET	DET	DET	DET	DET	DET	DET	DET	DET	DET	DET	DET	DET	DET	DET	DET	DET	DET

Table 1 - Summary of Soil Sampling Results
Western Environmental, Inc.
65-150 Gene Welmas Drive
Mecca, CA 92254

Parameter	California Regulatory Limits				Region 9 Screening Limits												
	CSTLC (mg/L)	CTTLC (mg/kg)	CHHSL (mg/kg)	MCL (mg/L)	Industrial Soil (mg/kg)						Untreated Samples						
Lab Sample ID						298460-021	298460-022	298460-023	298460-024	298460-025	298461-001	298461-002	298461-003	298461-004	298461-005	298461-006
Customer Sample ID						GL021-S021	GL022-S022	Composite -011,-012,-013	Composite -015,-016,-017	Composite -019,-020,-022	UTS-001	UTS-002	UTS-003	UTS-004	UTS-005	UTS-006
Sampling Date						12/15/11	12/15/11	12/14/11	12/15/11	12/15/11	12/16/11	12/16/11	12/16/11	12/16/11	12/16/11	12/16/11
Sample Time						16:00:00	16:21:00	15:15:00	7:36:00	13:22:00	7:30:00	8:18:00	9:00:00	9:37:00	10:25:00	10:53:00
metals-6010B																
(mg/kg dry wt)																
Antimony	15	500	380	0.006	41						ND(0.37)	ND(0.37)	ND(0.37)	ND(0.37)	ND(0.37)	ND(0.37)
Arsenic	5	500	0.24	0.01	0.16						3.33	6.59	8.35	5.76	28.6	24.5
Barium	100	10000	63000	1	19000						129	1050	2540	567	3230	1570
Beryllium	0.75	75	1700	0.004	200						0.7	0.6	ND(0.17)	0.7	ND(0.17)	0.6
Cadmium	1	100	7.5	0.005	80						ND(0.21)	2.28	1	1.15	1.28	1.01
Chromium	5	2500		0.05							18.1	51.4	28.2	39.5	22.4	19.1
Cobalt	80	8000	3200		30						11.3	11.3	8.3	9.35	6.28	7.24
Copper	25	2500	38000	1.3*	4100						16.1	109	56.4	67.1	53.2	28.1
Lead	5	1000	3500	0.015*	80						5.73	53	22	92.4	52.2	25.5
Molybdenum	350	3500	4800		510						1.1	4.24	6.01	6.59	33.5	1.85
Nickel	20	2000	16000	0.1	2000						12.8	33.4	33.6	30.6	18.9	16.7
Selenium	1	100	4800	0.05	510						ND(0.72)	ND(0.72)	ND(0.72)	ND(0.72)	ND(0.72)	ND(0.72)
Silver	5	500	4800		510						ND(0.13)	0.8	ND(0.13)	0.7	ND(0.13)	ND(0.13)
Thallium	7	700	63	0.002	1						ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)	ND(0.42)
Vanadium	24	2400	6700		520						37.7	33.5	25.4	32.2	23.7	35.2
Zinc	250	5000	100000		31000						52.9	194	92.6	136	166	164
metals-6010B/3050B																
(mg/kg dry wt)																
Antimony	15	500	380	0.006	41	ND(0.37)	ND(0.37)									
Arsenic	5	500	0.24	0.01	0.16	27.8	25.9									
Barium	100	10000	63000	1	19000	776	1060									
Beryllium	0.75	75	1700	0.004	200	0.7	0.7									
Cadmium	1	100	7.5	0.005	80	4.1	2.8									
Chromium	5	2500		0.05		59.1	48.3									
Cobalt	80	8000	3200		30	14.5	13.3									
Copper	25	2500	38000	1.3*	4100	233	1250									
Lead	5	1000	3500	0.015*	80	279	176									
Molybdenum	350	3500	4800		510	6.73	6.11									
Nickel	20	2000	16000	0.1	2000	58	50.1									
Selenium	1	100	4800	0.05	510	1.51	4.39									
Silver	5	500	4800		510	1.58	0.7									
Thallium	7	700	63	0.002	1	ND(0.42)	ND(0.42)									
Vanadium	24	2400	6700		520	50.8	45.7									
Zinc	250	5000	100000		31000	839	584									
metals-6010B/STLC (mg/L)																
Barium	100	10000	63000	1	19000		3.72					5.53	9.84		4.92	7.59
Chromium	5	2500		0.05		0.644						1.56				
Copper	25	2500	38000	1.3*	4100		9.58									
Lead	5	1000	3500	0.015*	80	3.77	4.79					2.65		7.35	2.59	
metals-6010B/TCLP/EPA 1311 (mg/L)																
Lead	5	1000	3500	0.015*	80		ND(0.004)							ND(0.004)		
metals-7196 (mg/L.)																
Chromium (IV)	5	500	37	0.05*	5.6	ND(0.4)	ND(0.4)				ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)
metals-7470A/STLC/7470A (mg/L.)																
Mercury	0.2	20	180	0.002	4.3										ND(0.02)	
metals-7471A (mg/kg dry wt.)																
Mercury	0.2	20	180	0.002	4.3	0.41	0.58				0.92	0.38	0.31	1.04	6.61	0.87
metals-6010B/1312/3010A (mg/L)																
Arsenic	5	500	0.24	0.01	0.16			0.025	0.017	0.017						
Lead	5	1000	3500	0.015*	80			ND(0.004)	ND(0.004)	ND(0.004)						
8081A/3546																
dry weight (mg/kg dry wt)																
4,4'-DDD	0.1	1	9		0.72	ND(0.015)	ND(0.015)				ND(0.0015)	ND(0.03)	ND(0.015)	ND(0.03)	ND(0.015)	ND(0.03)
4,4'-DDE	0.1	1	6.3		0.51	ND(0.015)	ND(0.015)				ND(0.0015)	ND(0.03)	ND(0.015)	ND(0.03)	ND(0.015)	ND(0.03)
4,4'-DDT	0.1	1	6.3		0.7	ND(0.015)	ND(0.015)				ND(0.0015)	ND(0.03)	ND(0.015)	ND(0.03)	ND(0.015)	ND(0.03)
Aldrin	0.14	1.4	0.13		0.01	ND(0.015)	ND(0.015)				ND(0.0015)	ND(0.03)	ND(0.015)	ND(0.03)	ND(0.015)	ND(0.03)
alpha-BHC					0.027	ND(0.015)	ND(0.015)				ND(0.0015)	ND(0.03)	ND(0.015)	ND(0.03)	ND(0.015)	ND(0.03)
beta-BHC					0.096	ND(0.015)	ND(0.015)				ND(0.0015)	ND(0.03)	ND(0.015)	ND(0.03)	ND(0.015)	ND(0.03)
Chlordane	0.25	2.5	1.7	0.0001	0.65	ND(0.1)	ND(0.1)				ND(0.01)	ND(0.2)	ND(0.1)	ND(0.2)	ND(0.1)	ND(0.2)
delta-BHC						ND(0.015)	ND(0.015)				ND(0.0015)	ND(0.03)	ND(0.015)	ND(0.03)	ND(0.015)	ND(0.03)
Dieldrin	0.8	8	0.13		0.011	ND(0.015)	ND(0.015)				ND(0.0015)	ND(0.03)	ND(0.015)	ND(0.03)	ND(0.015)	ND(0.03)
Endosulfan I						ND(0.015)	ND(0.015)				ND(0.0015)	ND(0.03)	ND(0.015)	ND(0.03)	ND(0.015)	ND(0.03)
Endosulfan II						ND(0.015)	ND(0.015)				ND(0.0015)	ND(0.03)	ND(0.015)	ND(0.03)	ND(0.015)	ND(0.03)
Endosulfan sulfate						ND(0.02)	ND(0.02)				ND(0.002)	ND(0.04)	ND(0.02)	ND(0.04)	ND(0.02)	ND(0.04)
Endrin	0.02	0.2	230	0.002	18	ND(0.015)	ND(0.015)				ND(0.0015)	ND(0.03)	ND(0.015)	ND(0.03)	ND(0.015)	ND(0.03)
Endrin aldehyde						ND(0.015)	ND(0.015)				ND(0.0015)	ND(0.03)	ND(0.015)	ND(0.03)	ND(0.015)	ND(0.03)
Endrin ketone						ND(0.02)	ND(0.02)				ND(0.002)	ND(0.04)	ND(0.02)	ND(0.04)	ND(0.02)	ND(0.04)
gamma-BHC (Lindane)	0.4	4	2	0.0002	0.21	ND(0.015)	ND(0.015)				ND(0.0015)	ND(0.03)	ND(0.015)	ND(0.03)	ND(0.015)	ND(0.03)
Heptachlor	0.47	4.7	0.52	1E-05	0.038	ND(0.02)	ND(0.02)				ND(0.002)	ND(0.04)	ND(0.02)	ND(0.04)	ND(0.02)	ND(0.04)
Heptachlor epoxide				1E-05	0.019	ND(0.02)	ND(0.02)				ND(0.002)	ND(0.04)	ND(0.02)	ND(0.04)	ND(0.02)	ND(0.04)
Methoxychlor	10	100	3800	0.03	310	ND(0.015)	ND(0.015)				ND(0.0015)	ND(0.03)	ND(0.015)	ND(0.03)	ND(0.015)	ND(0.03)
Tetrachloro-m-xylene						0.0179	0.0158				0.0195	0.00787	0.0241	0.019	0.0341	0.0206
Toxaphene	0.5	5	1.8	0.003	0.16	ND(0.5)	ND(0.5)				ND(0.05)	ND(1)	ND(0.5)	ND(1)	ND(0.5)	ND(1)
PCBs- 8082/3545																
drywt (mg/kg dry wt)																
PCB-1016	5.0	50	0.3	0.0005	2.1	ND(0.05)	ND(0.05)				ND(0.018)	ND(0.018)	ND(0.018)	ND(0.018)	ND(0.018)	ND(0.018)
PCB-1221	5.0	50	0.3	0.0005	0.054	ND(0.05)	ND(0.05)				ND(0.014)	ND(0.014)	ND(0.014)	ND(0.014)	ND(0.014)	ND(0.014)
PCB-1232	5.0	50	0.3	0.0005	0.054	ND(0.05)	ND(0.05)				ND(0.018)	ND(0.018)	ND(0.018)	ND(0.018)	ND(0.018)	ND(0.018)
PCB-1242	5.0	50	0.3	0.0005	0.074	ND(0.05)	ND(0.05)				ND(0.0073)	ND(0.0073)	ND(0.0073)	ND(0.0073)	ND(0.0073)	ND(0.0073)
PCB-1248	5.0	50	0.3	0.0005	0.074	ND(0.05)	ND(0.05)				ND(0.0066)	ND(0.0066)	ND(0.0066)	ND(0.0066)	ND(0.0066)	ND(0.0066)
PCB-1254	5.0	50	0.3	0.0005	0.074	1.1	1.3				ND(0.01)	0.32	0.072	0.12	0.49	0.064
PCB-1260	5.0	50	0.3	0.0005	0.074	ND(0.05)	ND(0.05)				ND(0.018)	ND(0.018)	ND(0.018)	ND(0.018)	ND(0.018)	ND(0.018)
PCB 1262	5.0	50	0.3	0.0005	0.074	ND(0.05)	ND(0.05)				ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
PCB 1268	5.0	50	0.3	0.0005	0.074	ND(0.05)	ND(0.05)				ND(0.011)	ND(0.011)	ND(0.011)	ND(0.011)	ND(0.011)	ND(0.011)
PCBs- 8082/1312/3510C (mg/L)																
PCB-1016	5.0	50	0.3	0.0005	2.1			ND(0.00013)	ND(0.00013)	ND(0.00013)						
PCB-1221	5.0	50	0.3	0.0005	0.054			ND(0.00024)	ND(0.00024)	ND(0.00024)						
PCB-1232	5.0	50	0.3	0.0005	0.054			ND(0.00012)	ND(0.00012)	ND(0.00012)						
PCB-1242	5.0	50	0.3	0.0005	0.074			ND(0.000071)	ND(0.000071)	ND(0.000071)						
PCB-1248	5.0	50	0.3	0.0005	0.074			ND(0.00012)	ND(0.00012)	ND(0.00012)						
PCB-1254	5.0	50	0.3	0.0005	0.074			ND(0.000084)	ND(0.000084)	ND(0.000084)						
PCB-1260	5.0	50	0.3	0.0005	0.074			ND(0.000082)	ND(0.000082)	ND(0.000082)						

Table 1 - Summary of Soil Sampling Results
Western Environmental, Inc.
65-150 Gene Welmas Drive
Mecca, CA 92254

Parameter	California Regulatory Limits				Region 9 Screening Limits												
	CSTLC (mg/L)	CTTLC (mg/kg)	CHHSL (mg/kg)	MCL (mg/L)	Industrial Soil (mg/kg)						Untreated Samples					
Lab Sample ID						298460-021	298460-022	298460-023	298460-024	298460-025	298461-001	298461-002	298461-003	298461-004	298461-005	298461-006
Customer Sample ID						GL021-S021	GL022-S022	Composite -011,-012,-013	Composite -015,-016,-017	Composite -019,-020,-022	UTS-001	UTS-002	UTS-003	UTS-004	UTS-005	UTS-006
Sampling Date						12/15/11	12/15/11	12/14/11	12/15/11	12/15/11	12/16/11	12/16/11	12/16/11	12/16/11	12/16/11	12/16/11
Sample Time						16:00:00	16:21:00	15:15:00	7:36:00	13:22:00	7:30:00	8:18:00	9:00:00	9:37:00	10:25:00	10:53:00
PCB 1262	5.0	50	0.3	0.0005	0.074			ND(0.000083)	ND(0.000083)	ND(0.000083)						
PCB 1268	5.0	50	0.3	0.0005	0.074			ND(0.000039)	ND(0.000039)	ND(0.000039)						
8260B/5035 GCMS																
dry weight (mg/kg dry wt)																
1,1,1,2-Tetrachloroethane					0.93	ND(0.00084)	ND(0.00067)								ND(0.00054)	ND(0.00044)
1,1,1-Trichloroethane					3800	ND(0.001)	ND(0.00082)								ND(0.00067)	ND(0.00054)
1,1,2,2-Tetrachloroethane				0.001	0.28	ND(0.0013)	ND(0.001)								ND(0.00082)	ND(0.00066)
1,1,2-Trichloroethane					0.53	ND(0.0013)	ND(0.001)								ND(0.00083)	ND(0.00067)
1,1-Dichloroethane				0.005	1.7	ND(0.00073)	ND(0.00059)								ND(0.00048)	ND(0.00038)
1,1-Dichloroethene				0.006	110	ND(0.00088)	ND(0.00071)								ND(0.00057)	ND(0.00046)
1,1-Dichloropropene						ND(0.00059)	ND(0.00047)								ND(0.00038)	ND(0.00031)
1,2,3-Trichlorobenzene					49	ND(0.0015)	ND(0.0012)								ND(0.00095)	ND(0.00077)
1,2,3-Trichloropropane					0.0095	ND(0.0015)	ND(0.0012)								ND(0.00095)	ND(0.00077)
1,2,4-Trichlorobenzene					9.9	ND(0.0015)	ND(0.0012)								ND(0.00095)	ND(0.00077)
1,2,4-Trimethylbenzene					26	ND(0.0011)	0.0043								0.0092	ND(0.0006)
1,2-Dibromo-3-chloropropane				0.0002	0.0069	ND(0.0022)	ND(0.0018)								ND(0.0014)	ND(0.0012)
1,2-Dibromoethane (EDB)				5E-05	0.017	ND(0.0012)	ND(0.00094)								ND(0.00076)	ND(0.00062)
1,2-Dichlorobenzene				0.6	980	ND(0.0014)	0.0028								ND(0.0009)	ND(0.00073)
1,2-Dichloroethane				0.0005	0.22	ND(0.0012)	ND(0.00094)								ND(0.00076)	ND(0.00062)
1,2-Dichloropropane				0.005	0.47	ND(0.0012)	ND(0.00094)								ND(0.00076)	ND(0.00062)
1,3,5-Trimethylbenzene					1000	ND(0.00092)	0.0034								0.0057	ND(0.00048)
1,3-Dichlorobenzene						ND(0.0012)	ND(0.00099)								ND(0.0008)	ND(0.00065)
1,3-Dichloropropane					2000	ND(0.00092)	ND(0.00074)								ND(0.0006)	ND(0.00048)
1,4-Dichlorobenzene				0.0005	1.2	ND(0.0014)	ND(0.0011)								ND(0.0009)	ND(0.00072)
2,2-Dichloropropane						ND(0.00088)	ND(0.00071)								ND(0.00057)	ND(0.00046)
2-Chlorotoluene					2000	ND(0.0013)	ND(0.001)								ND(0.00083)	ND(0.00067)
4-Bromofluorobenzene						0.0614	0.0556								0.0467	0.0372
4-Chlorotoluene					2000	ND(0.0011)	ND(0.00087)								ND(0.0007)	ND(0.00057)
Benzene				0.001	0.54	ND(0.00073)	ND(0.00059)								0.0022	ND(0.00038)
Bromobenzene					180	ND(0.0012)	ND(0.00099)								ND(0.0008)	ND(0.00065)
Bromochloromethane					68	ND(0.0013)	ND(0.0011)								ND(0.00086)	ND(0.00069)
Bromodichloromethane				0.08*	0.14	ND(0.00073)	ND(0.00059)								ND(0.00048)	ND(0.00038)
Bromoform				0.08*	22	ND(0.0012)	ND(0.00094)								ND(0.00076)	ND(0.00062)
Bromomethane					3.2	ND(0.0013)	ND(0.0011)								ND(0.00088)	ND(0.00071)
Carbon Tetrachloride				0.0005	0.3	ND(0.00073)	ND(0.00059)								ND(0.00048)	ND(0.00038)
Chlorobenzene				0.07	140	ND(0.00076)	ND(0.00061)								ND(0.0005)	ND(0.0004)
Chloroethane					6100	ND(0.0022)	ND(0.0018)								ND(0.0014)	ND(0.0012)
Chloroform				0.08*	0.15	ND(0.00073)	ND(0.00059)								ND(0.00048)	ND(0.00038)
Chloromethane					50	ND(0.0015)	ND(0.0012)								ND(0.00095)	ND(0.00077)
cis-1,2-Dichloroethene				0.006	200	ND(0.0012)	ND(0.00098)								ND(0.00079)	ND(0.00064)
cis-1,3-Dichloropropene				0.0005		ND(0.00065)	ND(0.00052)								ND(0.00042)	ND(0.00034)
Dibromochloromethane				0.08*	0.33	ND(0.001)	ND(0.00082)								ND(0.00067)	ND(0.00054)
Dibromofluoromethane						0.0681	0.056								0.0512	0.0394
Dibromomethane					11	ND(0.0013)	ND(0.0011)								ND(0.00086)	ND(0.00069)
Dichlorodifluoromethane					40	ND(0.0022)	ND(0.0018)								ND(0.0014)	ND(0.0012)
Ethyl Benzene				0.3	2.7	ND(0.00073)	ND(0.00059)								0.0031	0.009
Hexachlorobutadiene					2.2	ND(0.0012)	ND(0.00094)								ND(0.00076)	ND(0.00062)
Isopropylbenzene					1100	ND(0.00079)	ND(0.00064)								ND(0.00051)	0.0016
m + p Xylene				1.75		ND(0.0012)	ND(0.00094)								0.0061	ND(0.00062)
Methylene Chloride				0.005	5.3	ND(0.0095)	ND(0.0076)								ND(0.0062)	ND(0.005)
Naphthalene					1.8	ND(0.0016)	ND(0.0013)								ND(0.001)	ND(0.00085)
n-Butylbenzene					5100	ND(0.0011)	ND(0.00085)								ND(0.00069)	ND(0.00055)
n-Propylbenzene					2100	ND(0.00089)	ND(0.00072)								0.002	0.0032
o-Xylene				1.75	300	ND(0.00073)	ND(0.00059)								0.0068	ND(0.00038)
p-Isopropyltoluene						ND(0.0011)	ND(0.00085)								0.0057	ND(0.00055)
sec-Butylbenzene						ND(0.00098)	ND(0.00079)								ND(0.00064)	ND(0.00052)
Styrene				0.1	3600	ND(0.00085)	ND(0.00068)								ND(0.00055)	ND(0.00045)
tert-Butylbenzene						ND(0.00091)	ND(0.00073)								ND(0.00059)	ND(0.00048)
Tetrachloroethylene				0.005	0.26	ND(0.00072)	0.0032								0.0026	ND(0.00038)
Toluene				0.15	4500	0.0045	ND(0.00059)								0.0077	ND(0.00038)
Toluene-d8						0.0723	0.0611								0.0418	0.0387
trans-1,2-Dichloroethene				0.01	69	ND(0.001)	ND(0.00082)								ND(0.00067)	ND(0.00054)
trans-1,3-Dichloropropene				0.0005		ND(0.00089)	ND(0.00072)								ND(0.00058)	ND(0.00047)
Trichloroethylene	204	2040		0.005	0.64	ND(0.00073)	ND(0.00059)								ND(0.00048)	ND(0.00038)
Trichlorofluoromethane				0.15	340	ND(0.00079)	ND(0.00064)								ND(0.00051)	ND(0.00042)
Vinyl Chloride				0.0005	0.17	ND(0.0013)	ND(0.0011)								ND(0.00087)	ND(0.0007)
8260B/5035 MEOH-5035																
dry weight (mg/kg dry wt)																
1,1,1,2-Tetrachloroethane					0.93						ND(0.053)	ND(0.017)	ND(0.015)	ND(0.018)		
1,1,1-Trichloroethane					3800						ND(0.096)	ND(0.031)	ND(0.027)	ND(0.033)		
1,1,2,2-Tetrachloroethane				0.001	0.28						ND(0.14)	ND(0.044)	ND(0.038)	ND(0.047)		
1,1,2-Trichloroethane					0.53						ND(0.13)	ND(0.044)	ND(0.037)	ND(0.046)		
1,1-Dichloroethane				0.005	1.7						ND(0.1)	ND(0.033)	ND(0.028)	ND(0.035)		
1,1-Dichloroethene				0.006	110						ND(0.12)	ND(0.04)	ND(0.034)	ND(0.042)		
1,1-Dichloropropene											ND(0.098)	ND(0.032)	ND(0.028)	ND(0.034)		
1,2,3-Trichlorobenzene					49						ND(0.15)	ND(0.048)	ND(0.041)	ND(0.05)		
1,2,3-Trichloropropane					0.0095						ND(0.12)	ND(0.04)	ND(0.034)	ND(0.042)		
1,2,4-Trichlorobenzene					9.9						ND(0.13)	ND(0.042)	ND(0.036)	ND(0.044)		
1,2,4-Trimethylbenzene					26						17	1.2	1.8	0.12		
1,2-Dibromo-3-chloropropane				0.0002	0.0069						ND(0.15)	ND(0.049)	ND(0.042)	ND(0.051)		
1,2-Dibromoethane (EDB)				5E-05	0.017						ND(0.1)	ND(0.033)	ND(0.028)	ND(0.035)		
1,2-Dichlorobenzene				0.6	980						ND(0.081)	ND(0.026)	ND(0.023)	ND(0.028)		
1,2-Dichloroethane				0.0005	0.22						ND(0.1)	ND(0.034)	ND(0.029)	ND(0.035)		
1,2-Dichloropropane				0.005	0.47						ND(0.088)	ND(0.029)	ND(0.025)	ND(0.03)		
1,3,5-Trimethylbenzene					1000						5.2	0.45	0.56	ND(0.026)		
1,3-Dichlorobenzene											ND(0.078)	ND(0.026)	ND(0.022)	ND(0.027)		
1,3-Dichloropropane					2000						ND(0.091)	ND(0.03)	ND(0.025)	ND(0.031)		
1,4-Dichlorobenzene				0.0005	1.2						ND(0.086)	ND(0.028)	ND(0.024)	ND(0.029)		
2,2-Dichloropropane											ND(0.068)	ND(0.022)	ND(0.019)	ND(0.023)		
2-Chlorotoluene					2000						ND(0.081)	ND(0.026)	ND(0.023)	ND(0.028)		
4-Bromofluorobenzene											2.65	2.13	1.79	2.24		
4-Chlorotoluene					2000						ND(0.081)	ND(0.026)	ND(0.023)	ND(0.028)		
Benzene				0.001	0.54						ND(0.086)	ND(0.028)	ND(0.024)	ND(0.029)		
Bromobenzene					180						ND(0.086)	ND(0.028)	ND(0.024)	ND(0.029)		

Table 1 - Summary of Soil Sampling Results
Western Environmental, Inc.
65-150 Gene Welmas Drive
Mecca, CA 92254

Parameter	California Regulatory Limits				Region 9 Screening Limits											
	CSTLC (mg/L)	CTTLC (mg/kg)	CHHSL (mg/kg)	MCL (mg/L)	Industrial Soil (mg/kg)						Untreated Samples					
Lab Sample ID						298460-021	298460-022	298460-023	298460-024	298460-025	298461-001	298461-002	298461-003	298461-004	298461-005	298461-006
Customer Sample ID						GL021-S021	GL022-S022	Composite -011,-012,-013	Composite -015,-016,-017	Composite -019,-020,-022	UTS-001	UTS-002	UTS-003	UTS-004	UTS-005	UTS-006
Sampling Date						12/15/11	12/15/11	12/14/11	12/15/11	12/15/11	12/16/11	12/16/11	12/16/11	12/16/11	12/16/11	12/16/11
Sample Time						16:00:00	16:21:00	15:15:00	7:36:00	13:22:00	7:30:00	8:18:00	9:00:00	9:37:00	10:25:00	10:53:00
Bromochloromethane					68						ND(0.13)	ND(0.041)	ND(0.035)	ND(0.043)		
Bromodichloromethane				0.08*	0.14						ND(0.078)	ND(0.026)	ND(0.022)	ND(0.027)		
Bromoform				0.08*	22						ND(0.098)	ND(0.032)	ND(0.028)	ND(0.034)		
Bromomethane					3.2						ND(0.11)	ND(0.037)	ND(0.032)	ND(0.039)		
Carbon Tetrachloride				0.0005	0.3						ND(0.071)	ND(0.023)	ND(0.02)	ND(0.024)		
Chlorobenzene				0.07	140						ND(0.076)	ND(0.025)	ND(0.021)	ND(0.026)		
Chloroethane					6100						ND(0.11)	ND(0.037)	ND(0.032)	ND(0.039)		
Chloroform				0.08*	0.15						ND(0.11)	ND(0.036)	ND(0.031)	ND(0.038)		
Chloromethane					50						ND(0.13)	ND(0.041)	ND(0.035)	ND(0.043)		
cis-1,2-Dichloroethene				0.006	200						ND(0.12)	ND(0.04)	ND(0.034)	ND(0.042)		
cis-1,3-Dichloropropene				0.0005							ND(0.091)	ND(0.03)	ND(0.025)	ND(0.031)		
Dibromochloromethane				0.08*	0.33						ND(0.068)	ND(0.022)	ND(0.019)	ND(0.023)		
Dibromofluoromethane											2.22	1.76	1.5	1.85		
Dibromomethane					11						ND(0.11)	ND(0.035)	ND(0.03)	ND(0.036)		
Dichlorodifluoromethane					40						ND(0.15)	ND(0.05)	ND(0.043)	ND(0.053)		
Ethyl Benzene				0.3	2.7						0.8	0.31	ND(0.019)	ND(0.023)		
Hexachlorobutadiene					2.2						ND(0.098)	ND(0.032)	ND(0.028)	ND(0.034)		
Isopropylbenzene					1100						0.25	0.12	ND(0.025)	ND(0.03)		
m + p Xylene				1.75							3.5	0.62	0.086	ND(0.046)		
Methylene Chloride				0.005	5.3						ND(1.1)	ND(0.35)	ND(0.3)	ND(0.37)		
Naphthalene					1.8						2.8	0.32	ND(0.057)	ND(0.07)		
n-Butylbenzene					5100						ND(0.086)	ND(0.028)	ND(0.024)	ND(0.029)		
n-Propylbenzene					2100						1.4	0.24	0.22	ND(0.031)		
o-Xylene				1.75	300						ND(0.071)	0.37	0.15	ND(0.024)		
p-Isopropyltoluene											ND(0.12)	ND(0.04)	0.11	0.24		
sec-Butylbenzene											ND(0.078)	ND(0.026)	ND(0.022)	ND(0.027)		
Styrene				0.1	3600						ND(0.076)	0.1	ND(0.021)	ND(0.026)		
tert-Butylbenzene											ND(0.068)	ND(0.022)	ND(0.019)	ND(0.023)		
Tetrachloroethylene				0.005	0.26						ND(0.11)	0.14	ND(0.031)	ND(0.038)		
Toluene				0.15	4500						ND(0.083)	0.17	ND(0.023)	ND(0.029)		
Toluene-d8											2.58	2.1	1.77	2.2		
trans-1,2-Dichloroethene				0.01	69						ND(0.13)	ND(0.041)	ND(0.035)	ND(0.043)		
trans-1,3-Dichloropropene				0.0005							ND(0.088)	ND(0.029)	ND(0.025)	ND(0.03)		
Trichloroethylene	204	2040		0.005	0.64						ND(0.096)	ND(0.031)	ND(0.027)	ND(0.033)		
Trichlorofluoromethane				0.15	340						ND(0.15)	ND(0.048)	ND(0.041)	ND(0.05)		
Vinyl Chloride				0.0005	0.17						ND(0.16)	ND(0.054)	ND(0.046)	ND(0.056)		
8270C/3545																
dry weight (mg/kg dry wt)																
1,2,4-Trichlorobenzene					9.9											
1,2-Dichlorobenzene					980											
1,2-Diphenylhydrazine					0.22											
1,3-Dichlorobenzene																
1,4-Dichlorobenzene					1.2											
2,4,5-Trichlorophenol					6200											
2,4,6-Tribromophenol																
2,4,6-Trichlorophenol					16											
2,4-Dichlorophenol					180											
2,4-Dimethylphenol					1200											
2,4-Dinitrophenol					120											
2,4-Dinitrotoluene					0.55											
2,6-Dinitrotoluene					62											
2-Chloronaphthalene					8200											
2-Chlorophenol					510											
2-Fluorobiphenyl																
2-Fluorophenol																
2-Methylnaphthalene					410											
2-Methylphenol					3100											
2-Nitroaniline					600											
2-Nitrophenol																
3,3'-Dichlorobenzidine					0.38											
3-Nitroaniline																
4,6-Dinitro-2-methylphenol					4.9											
4-Bromophenyl phenyl ether																
4-Chloro-3-methylphenol					6200											
4-Chloroaniline					0.86											
4-Chlorophenyl phenyl ether																
4-Methylphenol					310											
4-Nitroaniline					8.6											
4-Nitrophenol																
Acenaphthene					3300											
Acenaphthylene																
Aniline					30											
Anthracene					17000											
Benzidine					0.00075											
Benzo(a)anthracene					0.21											
Benzo(a)pyrene			0.13	0.0002	0.021											
Benzo(b)fluoranthene					0.21											
Benzo(g,h,i)perylene																
Benzo(k)fluoranthene					2.1											
Benzoic acid					250000											
Benzyl alcohol					6200											
Bis(2-chloroethoxy)methane					180											
Bis(2-chloroethyl)ether					0.1											
Bis(2-chloroisopropyl)ether					2.2											
Bis(2-ethylhexyl)phthalate					12											
Butyl benzyl phthalate					91											
Chrysene					21											
Dibenz(a,h)anthracene					0.021											
Dibenzofuran					100											
Diethyl phthalate					49000											
Dimethyl phthalate																
Di-n-butyl phthalate					6200											
Di-n-octyl phthalate																
Fluoranthene					2200											

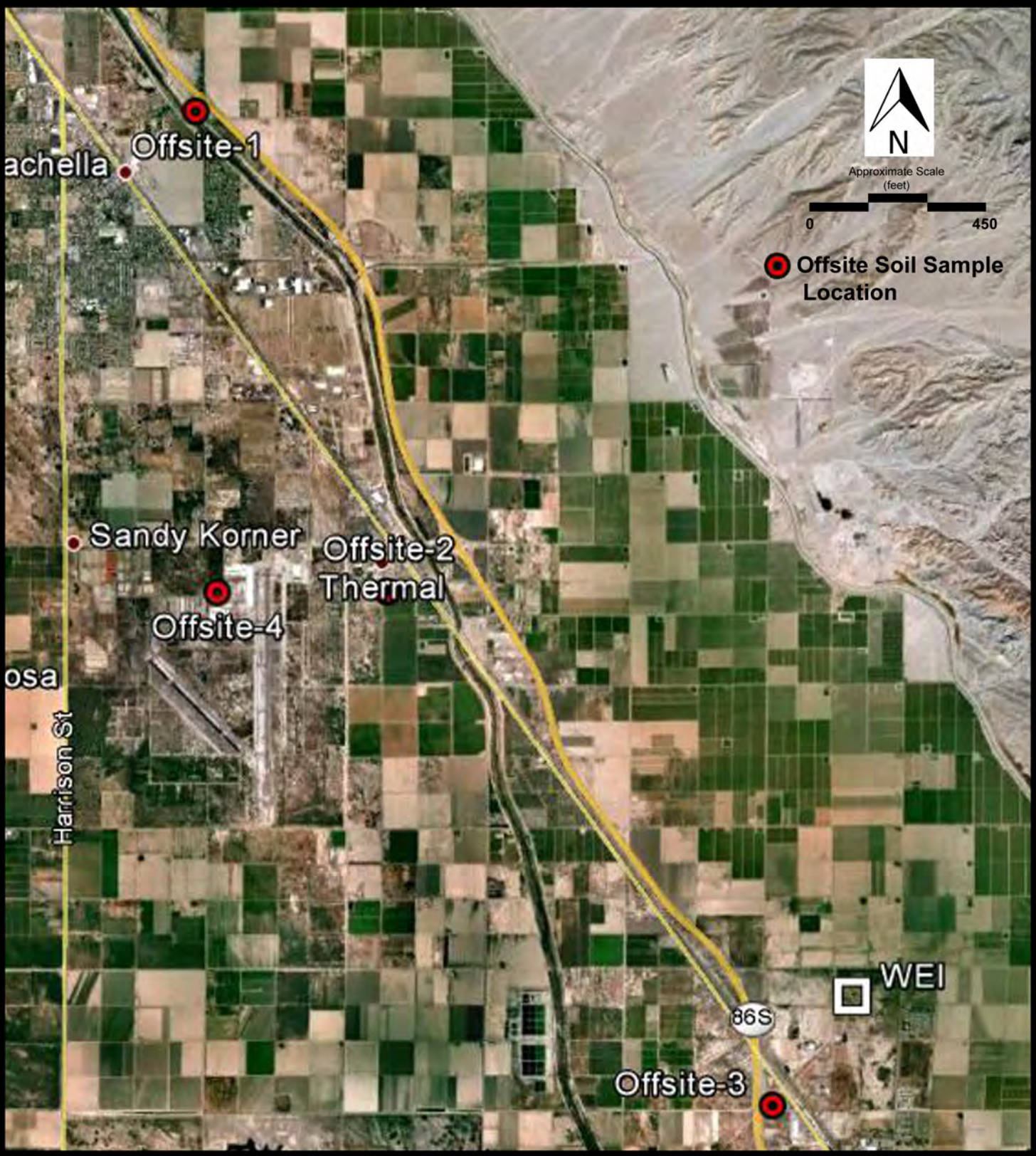
Table 1 - Summary of Soil Sampling Results
Western Environmental, Inc.
65-150 Gene Welmas Drive
Mecca, CA 92254

Parameter	California Regulatory Limits				Region 9 Screening Limits											
	CSTLC (mg/L)	CTTLC (mg/kg)	CHHSL (mg/kg)	MCL (mg/L)	Industrial Soil (mg/kg)					Untreated Samples					
Lab Sample ID						298460-021	298460-022	298460-023	298460-024	298460-025	298461-001	298461-002	298461-003	298461-004	298461-005	298461-006
Customer Sample ID						GL021-S021	GL022-S022	Composite -011,-012,-013	Composite -015,-016,-017	Composite -019,-020,-022	UTS-001	UTS-002	UTS-003	UTS-004	UTS-005	UTS-006
Sampling Date						12/15/11	12/15/11	12/14/11	12/15/11	12/15/11	12/16/11	12/16/11	12/16/11	12/16/11	12/16/11	12/16/11
Sample Time						16:00:00	16:21:00	15:15:00	7:36:00	13:22:00	7:30:00	8:18:00	9:00:00	9:37:00	10:25:00	10:53:00
Fluorene					2200											
Hexachlorobenzene				0.001	0.11											
Hexachlorobutadiene					2.2											
Hexachlorocyclopentadiene				0.05	370											
Hexachloroethane					4.3											
Indeno(1,2,3-cd)pyrene					0.21											
Isophorone					180											
Naphthalene					1.8											
Nitrobenzene					2.4											
Nitrobenzene-d5																
N-Nitroso-di-n-propylamine					0.025											
N-Nitrosodiphenylamine					35											
Pentachlorophenol	1.7	17	13	0.001	0.27											
Phenanthrene																
Phenol					18000											
Phenol-d6																
Pyrene					1700											
Terphenyl-d14																
8270C/3546																
dry weight (mg/kg dry wt)																
1,2,4-Trichlorobenzene					9.9	ND(0.3)	ND(0.6)				ND(0.075)	ND(0.75)	ND(0.6)	ND(0.6)	ND(0.6)	ND(1.5)
1,2-Dichlorobenzene					980	ND(0.36)	ND(0.72)				ND(0.09)	ND(0.9)	ND(0.72)	ND(0.72)	ND(0.72)	ND(1.8)
1,2-Diphenylhydrazine					0.22	ND(0.36)	ND(0.72)				ND(0.09)	ND(0.9)	ND(0.72)	ND(0.72)	ND(0.72)	ND(1.8)
1,3-Dichlorobenzene						ND(0.54)	ND(1.1)				ND(0.14)	ND(1.4)	ND(1.1)	ND(1.1)	ND(1.1)	ND(2.7)
1,4-Dichlorobenzene					1.2	ND(0.39)	ND(0.78)				ND(0.098)	ND(0.98)	ND(0.78)	ND(0.78)	ND(0.78)	ND(2)
2,4,5-Trichlorophenol					6200	ND(0.78)	ND(1.6)				ND(0.2)	ND(2)	ND(1.6)	ND(1.6)	ND(1.6)	ND(3.9)
2,4,6-Tribromophenol						7.06	8.79				9.51	12.3	11.7	6.79	8.81	10.5
2,4,6-Trichlorophenol					16	ND(0.45)	ND(0.9)				ND(0.11)	ND(1.1)	ND(0.9)	ND(0.9)	ND(0.9)	ND(2.2)
2,4-Dichlorophenol					180	ND(0.36)	ND(0.72)				ND(0.09)	ND(0.9)	ND(0.72)	ND(0.72)	ND(0.72)	ND(1.8)
2,4-Dimethylphenol					1200	ND(0.6)	ND(1.2)				ND(0.15)	ND(1.5)	ND(1.2)	ND(1.2)	ND(1.2)	ND(3)
2,4-Dinitrophenol					120	ND(0.66)	ND(1.3)				ND(0.16)	ND(1.6)	ND(1.3)	ND(1.3)	ND(1.3)	ND(3.3)
2,4-Dinitrotoluene					0.55	ND(0.48)	ND(0.96)				ND(0.12)	ND(1.2)	ND(0.96)	ND(0.96)	ND(0.96)	ND(2.4)
2,6-Dinitrotoluene					62	ND(0.57)	ND(1.1)				ND(0.14)	ND(1.4)	ND(1.1)	ND(1.1)	ND(1.1)	ND(2.8)
2-Chloronaphthalene					8200	ND(0.39)	ND(0.78)				ND(0.098)	ND(0.98)	ND(0.78)	ND(0.78)	ND(0.78)	ND(2)
2-Chlorophenol					510	ND(0.42)	ND(0.84)				ND(0.1)	ND(1)	ND(0.84)	ND(0.84)	ND(0.84)	ND(2.1)
2-Fluorobiphenyl						4.31	4.3				4.13	5.16	5.67	2.82	4.05	3.86
2-Fluorophenol						7.61	6.92				7.86	8.77	9.56	4.4	6.38	5.92
2-Methylnaphthalene					410	ND(0.42)	ND(0.84)				2.1	ND(1)	ND(0.84)	ND(0.84)	ND(0.84)	ND(2.1)
2-Methylphenol					3100	ND(0.48)	ND(0.96)				ND(0.12)	ND(1.2)	ND(0.96)	ND(0.96)	ND(0.96)	ND(2.4)
2-Nitroaniline					600	ND(0.36)	ND(0.72)				ND(0.09)	ND(0.9)	ND(0.72)	ND(0.72)	ND(0.72)	ND(1.8)
2-Nitrophenol						ND(0.36)	ND(0.72)				ND(0.09)	ND(0.9)	ND(0.72)	ND(0.72)	ND(0.72)	ND(1.8)
3,3'-Dichlorobenzidine					0.38	ND(0.9)	ND(1.8)				ND(0.22)	ND(2.2)	ND(1.8)	ND(1.8)	ND(1.8)	ND(4.5)
3-Nitroaniline						ND(0.45)	ND(0.9)				ND(0.11)	ND(1.1)	ND(0.9)	ND(0.9)	ND(0.9)	ND(2.2)
4,6-Dinitro-2-methylphenol					4.9	ND(0.66)	ND(1.3)				ND(0.16)	ND(1.6)	ND(1.3)	ND(1.3)	ND(1.3)	ND(3.3)
4-Bromophenyl phenyl ether						ND(0.45)	ND(0.9)				ND(0.11)	ND(1.1)	ND(0.9)	ND(0.9)	ND(0.9)	ND(2.2)
4-Chloro-3-methylphenol					6200	ND(0.42)	ND(0.84)				ND(0.1)	ND(1)	ND(0.84)	ND(0.84)	ND(0.84)	ND(2.1)
4-Chloroaniline					0.86	ND(0.72)	ND(1.4)				ND(0.18)	ND(1.8)	ND(1.4)	ND(1.4)	ND(1.4)	ND(3.6)
4-Chlorophenyl phenyl ether						ND(0.51)	ND(1)				ND(0.13)	ND(1.3)	ND(1)	ND(1)	ND(1)	ND(2.6)
4-Methylphenol					310	ND(0.48)	ND(0.96)				ND(0.12)	ND(1.2)	ND(0.96)	ND(0.96)	ND(0.96)	ND(2.4)
4-Nitroaniline					8.6	ND(0.54)	ND(1.1)				ND(0.14)	ND(1.4)	ND(1.1)	ND(1.1)	ND(1.1)	ND(2.7)
4-Nitrophenol						ND(0.84)	ND(1.7)				ND(0.21)	ND(2.1)	ND(1.7)	ND(1.7)	ND(1.7)	ND(4.2)
Acenaphthene					3300	ND(0.36)	ND(0.72)				ND(0.09)	ND(0.9)	ND(0.72)	ND(0.72)	ND(0.72)	ND(1.8)
Acenaphthylene						ND(0.42)	ND(0.84)				ND(0.1)	ND(1)	ND(0.84)	ND(0.84)	ND(0.84)	ND(2.1)
Aniline					30	ND(0.51)	ND(1)				ND(0.13)	ND(1.3)	ND(1)	ND(1)	ND(1)	ND(2.6)
Anthracene					17000	ND(0.48)	ND(0.96)				ND(0.12)	ND(1.2)	ND(0.96)	ND(0.96)	ND(0.96)	ND(2.4)
Benzidine					0.00075	ND(4)	ND(7.9)				ND(0.99)	ND(9.9)	ND(7.9)	ND(7.9)	ND(7.9)	ND(20)
Benzo(a)anthracene					0.21	ND(0.42)	ND(0.84)				ND(0.1)	ND(1)	ND(0.84)	ND(0.84)	ND(0.84)	ND(2.1)
Benzo(a)pyrene			0.13	0.0002	0.021	ND(0.33)	ND(0.66)				ND(0.082)	ND(0.82)	ND(0.66)	ND(0.66)	ND(0.66)	ND(1.6)
Benzo(b)fluoranthene					0.21	ND(0.3)	ND(0.6)				ND(0.075)	ND(0.75)	ND(0.6)	ND(0.6)	ND(0.6)	ND(1.5)
Benzo(g,h,i)perylene						ND(0.66)	ND(1.3)				ND(0.16)	ND(1.6)	ND(1.3)	ND(1.3)	ND(1.3)	ND(3.3)
Benzo(k)fluoranthene					2.1	ND(0.42)	ND(0.84)				ND(0.1)	ND(1)	ND(0.84)	ND(0.84)	ND(0.84)	ND(2.1)
Benzoic acid					250000	ND(0.9)	ND(1.8)				ND(0.22)	ND(2.2)	ND(1.8)	ND(1.8)	ND(1.8)	ND(4.5)
Benzyl alcohol					6200	ND(1.2)	ND(2.4)				ND(0.3)	ND(3)	ND(2.4)	ND(2.4)	ND(2.4)	ND(6)
Bis(2-chloroethoxy)methane					180	ND(0.42)	ND(0.84)				ND(0.1)	ND(1)	ND(0.84)	ND(0.84)	ND(0.84)	ND(2.1)
Bis(2-chloroethyl)ether					0.1	ND(0.36)	ND(0.72)				ND(0.09)	ND(0.9)	ND(0.72)	ND(0.72)	ND(0.72)	ND(1.8)
Bis(2-chloroisopropyl)ether					2.2	ND(0.36)	ND(0.72)				ND(0.09)	ND(0.9)	ND(0.72)	ND(0.72)	ND(0.72)	ND(1.8)
Bis(2-ethylhexyl)phthalate					12	ND(0.54)	ND(1.1)				ND(0.14)	9.3	4.4	4.4	ND(1.1)	ND(2.7)
Butyl benzyl phthalate					91	ND(0.48)	ND(0.96)				ND(0.12)	ND(1.2)	ND(0.96)	ND(0.96)	ND(0.96)	ND(2.4)
Chrysene					21	ND(0.45)	ND(0.9)				ND(0.11)	ND(1.1)	ND(0.9)	ND(0.9)	ND(0.9)	ND(2.2)
Dibenz(a,h)anthracene					0.021	ND(0.6)	ND(1.2)				ND(0.15)	ND(1.5)	ND(1.2)	ND(1.2)	ND(1.2)	ND(3)
Dibenzofuran					100	ND(0.36)	ND(0.72)				ND(0.09)	ND(0.9)	ND(0.72)	ND(0.72)	ND(0.72)	ND(1.8)
Diethyl phthalate					49000	ND(0.57)	ND(1.1)				ND(0.14)	ND(1.4)	ND(1.1)	ND(1.1)	ND(1.1)	ND(2.8)
Dimethyl phthalate						ND(0.39)	ND(0.78)				ND(0.098)	ND(0.98)	ND(0.78)	ND(0.78)	ND(0.78)	ND(2)
Di-n-butyl phthalate					6200	ND(0.54)	40				ND(0.14)	ND(1.4)	ND(1.1)	ND(1.1)	ND(1.1)	ND(2.7)
Di-n-octyl phthalate						ND(0.54)	ND(1.1)				ND(0.14)	ND(1.4)	ND(1.1)	ND(1.1)	ND(1.1)	ND(2.7)
Fluoranthene					2200	ND(0.42)	ND(0.84)				ND(0.1)	ND(1)	ND(0.84)	ND(0.84)	ND(0.84)	ND(2.1)
Fluorene					2200	ND(0.42)	ND(0.84)				ND(0.1)	ND(1)	ND(0.84)	ND(0.84)	ND(0.84)	ND(2.1)
Hexachlorobenzene				0.001	0.11	ND(0.42)	ND(0.84)				ND(0.1)	ND(1)	ND(0.84)	ND(0.84)	ND(0.84)	ND(2.1)
Hexachlorobutadiene					2.2	ND(0.36)	ND(0.72)				ND(0.09)	ND(0.9)	ND(0.72)	ND(0.72)	ND(0.72)	ND(1.8)
Hexachlorocyclopentadiene				0.05	370	ND(0.54)	ND(1.1)				ND(0.14)	ND(1.4)	ND(1.1)	ND(1.1)	ND(1.1)	ND(2.7)
Hexachloroethane					4.3	ND(0.39)	ND(0.78)				ND(0.098)	ND(0.98)	ND(0.78)	ND(0.78)	ND(0.78)	ND(2)
Indeno(1,2,3-cd)pyrene					0.21	ND(0.78)	ND(1.6)				ND(0.2)	ND(2)	ND(1.6)	ND(1.6)	ND(1.6)	ND(3.9)
Isophorone					180	ND(0.36)	ND(0.72)				ND(0.09)	ND(0.9)	ND(0.72)	ND(0.72)	ND(0.72)	ND(1.8)
Naphthalene					1.8	ND(0.36)	ND(0.72)				1.2	ND(0.9)	ND(0.72)	ND(0.72)	ND(0.72)	ND(1.8)
Nitrobenzene					2.4	ND(0.42)	ND(0.84)				ND(0.1)	ND(1)	ND(0.84)	ND(0.84)	ND(0.84)	ND(2.1)
Nitrobenzene-d5						3.78	3.46				3.49	4.07	4.36	2.38	3.33	3.36
N-Nitroso-di-n-propylamine					0.025	ND(0.42)	ND(0.84)				ND(0.1)	ND(1)	ND(0.84)	ND(0.84)	ND(0.84)	ND(2.1)
N-Nitrosodiphenylamine					35	ND(0.48)	ND(0.96)				ND(0.12)	ND(1.2)	ND(0.96)	ND(0.96)	ND(0.96)	ND(2.4)
Pentachlorophenol	1.7	17	13	0.001	0.27	ND(0.9)	ND(1.8)				ND(0.22)	ND(2.2)	ND(1.8)	ND(1.8)	ND(1.8)	ND(4.5)
Phenanthrene						ND(0.36)	ND(0.72)				ND(0.09)	ND(0.9)	ND(0.72)	ND(0.72)	ND(0.72)	ND(1.8)
Phenol					18000	ND(0.54)	ND(1.1)				ND(0.14)	ND(1.4)	ND(1.1)	ND(1.1)	ND(1.1)	ND(2.7)
Phenol-d6						7.65	7.05				7.74	8.97	9.53	5.18	7.26	6.58
Pyrene					1700	ND(0.48)	ND(0.96)				ND(0.12)	ND(1.2)	ND(0.96)	ND(0.96)	ND(0.96)	ND(2.4)
Terphenyl-d14						5.24	5.13				4.85	6.59	6.48	3.62	4.59	5.26

Table 1 - Summary of Soil Sampling Results
Western Environmental, Inc.
65-150 Gene Welmas Drive
Mecca, CA 92254

Parameter	California Regulatory Limits				Region 9 Screening Limits											
	CSTLC (mg/L)	CTTLC (mg/kg)	CHHSL (mg/kg)	MCL (mg/L)	Industrial Soil (mg/kg)						Untreated Samples					
Lab Sample ID						298460-021	298460-022	298460-023	298460-024	298460-025	298461-001	298461-002	298461-003	298461-004	298461-005	298461-006
Customer Sample ID						GL021-S021	GL022-S022	Composite -011,-012,-013	Composite -015,-016,-017	Composite -019,-020,-022	UTS-001	UTS-002	UTS-003	UTS-004	UTS-005	UTS-006
Sampling Date						12/15/11	12/15/11	12/14/11	12/15/11	12/15/11	12/16/11	12/16/11	12/16/11	12/16/11	12/16/11	12/16/11
Sample Time						16:00:00	16:21:00	15:15:00	7:36:00	13:22:00	7:30:00	8:18:00	9:00:00	9:37:00	10:25:00	10:53:00
8310/N_EPA 3545																
dry weight (mg/kg dry wt)																
2-Chloroanthracene						0.313	0.393				0.255	0.31	0.155	0.364	0.275	0.103
Acenaphthiene					3300	ND(0.056)	ND(0.056)				ND(0.056)	ND(0.056)	ND(0.056)	ND(0.056)	ND(0.056)	ND(0.056)
Acenaphthylene						ND(0.094)	ND(0.094)				ND(0.094)	ND(0.094)	ND(0.094)	ND(0.094)	ND(0.094)	ND(0.094)
Anthracene					17000	ND(0.005)	ND(0.005)				ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Benzanthracene					0.21	0.072	0.05				ND(0.008)	ND(0.008)	ND(0.008)	ND(0.008)	ND(0.008)	ND(0.008)
Benzo(a)pyrene					0.021	0.16	0.12				ND(0.004)	ND(0.004)	ND(0.004)	ND(0.004)	ND(0.004)	ND(0.004)
Benzo(b)fluoranthene					0.21	0.085	0.053				ND(0.013)	0.065	ND(0.013)	ND(0.013)	ND(0.013)	ND(0.013)
Benzo(g,h,i)perylene						ND(0.008)	ND(0.008)				ND(0.008)	ND(0.008)	ND(0.008)	0.25	ND(0.008)	ND(0.008)
Benzo(k)fluoranthene					2.1	0.11	0.11				ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.11
Chrysene					21	0.074	0.059				ND(0.004)	0.084	ND(0.004)	ND(0.004)	ND(0.004)	ND(0.004)
Dibenz(a,h)anthracene					0.021	ND(0.004)	ND(0.004)				ND(0.004)	ND(0.004)	ND(0.004)	ND(0.004)	ND(0.004)	ND(0.004)
Fluoranthene					2200	0.23	0.2				0.034	0.17	0.048	ND(0.008)	ND(0.008)	0.23
Fluorene					2200	ND(0.008)	ND(0.008)				0.039	0.089	ND(0.008)	0.25	0.076	0.33
Indeno(1,2,3-cd)pyrene					0.21	ND(0.006)	ND(0.006)				ND(0.006)	ND(0.006)	ND(0.006)	ND(0.006)	0.11	ND(0.006)
Naphthalene					1.8	ND(0.086)	ND(0.086)				1.2	0.57	ND(0.086)	ND(0.086)	0.23	ND(0.086)
Phenanthrene						0.2	0.14				0.29	0.29	0.1	0.57	0.3	0.89
Pyrene					1700	0.36	0.42				0.13	0.48	ND(0.006)	ND(0.006)	ND(0.006)	ND(0.006)
Total Cyanide-9014 (mg/L)																
Total Cyanide (57-12-5)				0.15	2000	ND(0.43)	ND(0.43)				ND(0.43)	ND(0.43)	ND(0.43)	ND(0.43)	ND(0.43)	ND(0.43)
pH-9045C (pH units)																
pH						9.1	8.4				7.9	8.8	8	8	8.2	7.8
STLC-MET (N/A)																
Extraction						DET	DET					DET	DET	DET	DET	DET

Figures



DEPARTMENT OF TOXIC SUBSTANCES CONTROL

Western Environmental, Inc.
62-150 Gene Welmas Drive
Mecca, California

Source: Google Earth dated September 16, 2011

Figure 1
Offsite Soil Sample Location Map

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

Western Environmental, Inc.
62-150 Gene Welmas Drive
Mecca, California

Source: Google Earth dated September 16, 2011

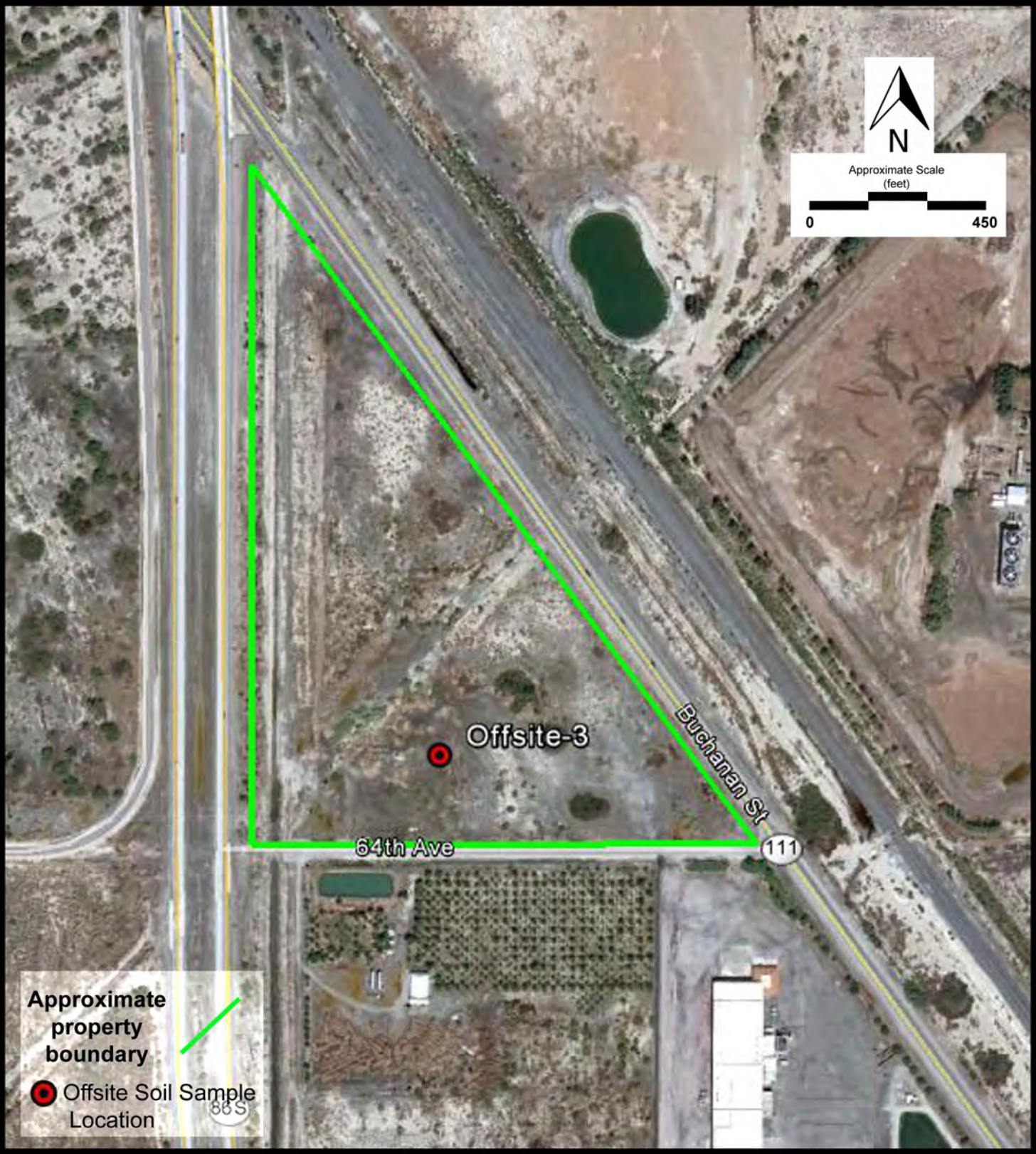
Figure 2
Offsite Soil
Sample Location 1
Map

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

Western Environmental, Inc.
62-150 Gene Welmas Drive
Mecca, California

Source: Google Earth dated September 16, 2011

Figure 3
Offsite Soil Sample Location 2 Map



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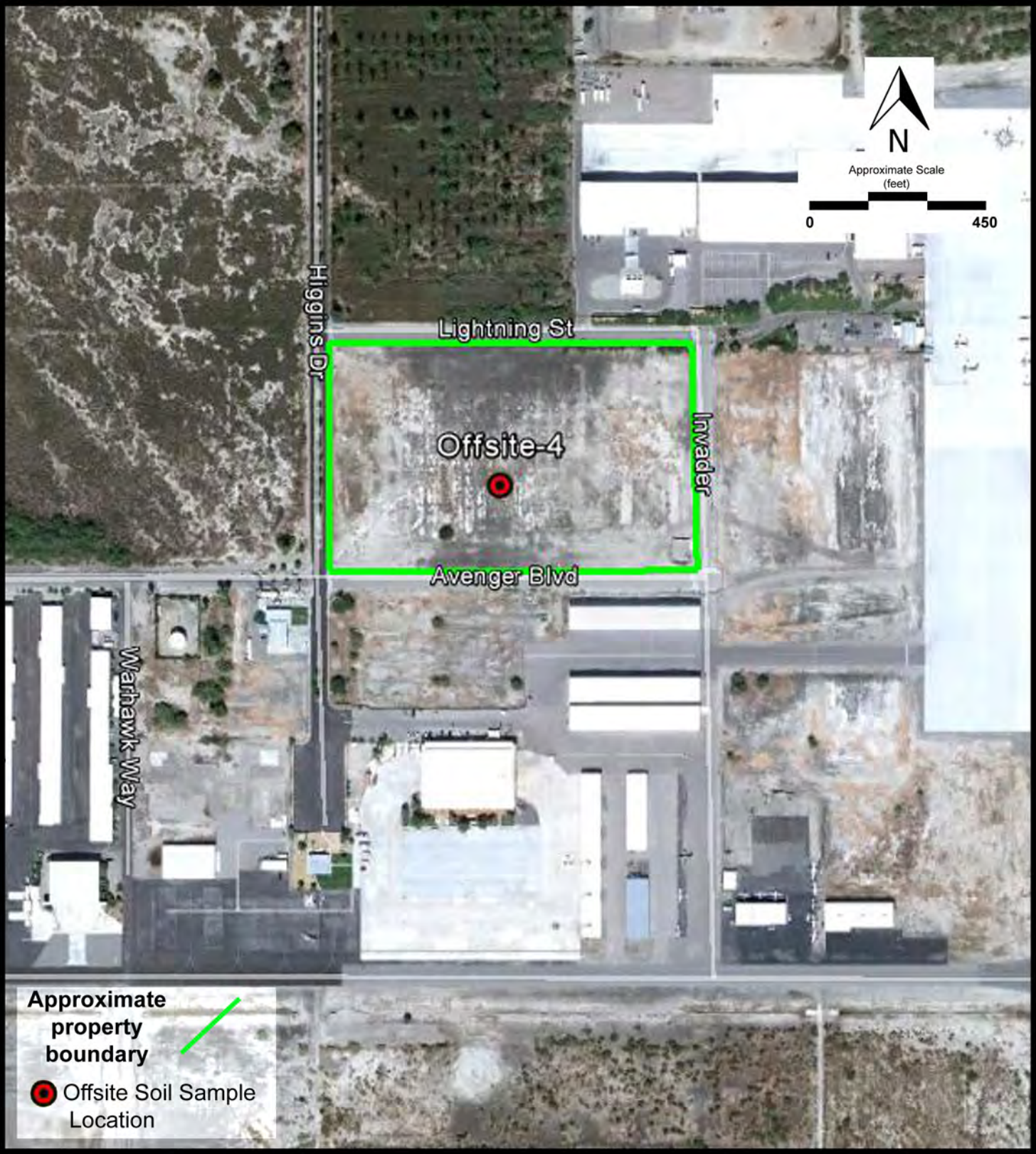
Western Environmental, Inc.
62-150 Gene Welmas Drive
Mecca, California

Source: Google Earth dated September 16, 2011

Figure 4
Offsite Soil Sample Location 3 Map



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Western Environmental, Inc.
62-150 Gene Welmas Drive
Mecca, California

Source: Google Earth dated September 16, 2011

Figure 5
Offsite Soil
Sample Location 4
Map

Photo Log

Photo 1 – View of staff monitoring for potential vapors from homogenized onsite soil sample in stainless steel bowl

Photo 2 – View of hollow stem auger drilling rig used to collect onsite stockpiled soil samples

Photo 3 – View of excavator used to collect onsite stockpiled soil samples from treated stockpile

Photo 4 – View of excavator used to collect onsite soil samples from untreated stockpile

Photo 5 – View of offsite soil sample location number 1

Photo 6 – Overview of offsite soil sample location number 1

Photo 7 – View of offsite soil sample location number 2

Photo 8 – Overview of offsite soil sample location number 2

Photo 9 – View of offsite soil sample location number 3

Photo 10 – Overview of offsite soil sample location 3

Photo 11 – View of offsite soil sample location number 4

Photo 12 – Overview of offsite soil sample location number 4

Environmental Chemistry Laboratory

Reports

California Environmental Protection Agency
Department of Toxic Substances Control
Environmental Chemistry Laboratory
700 Heinz Avenue, Suite 100, Berkeley, CA 94710
Telephone: (510) 540-3003

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

LABORATORY REPORT --- MERCURY --- SOIL

Authorization No. : 11EC0085
ECL No.: AV01592-AV01597

Requestor's Name: Greg Neal
Address: 5796 Corporate Avenue, Cypress, CA 90630

Sampling Location: WEI Mecca
62 - 150 Gene Welmos Ave, Mecca, CA

Table of Contents

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Sample Analysis Requests	8
Sample Receipt and Photos	9-15

The results listed within this report pertain only to the samples tested in the laboratory. These results have been reviewed for technical correctness and completeness. This report was reviewed and approved for release.

Report Reviewed by: Carol Wortham Date 1/10/2012
Carol Wortham, Staff Chemist

Report Approved by: John Quinn Date 1/10/2012
John Quinn, RSSI

California Environmental Protection Agency
Department of Toxic Substances Control
Environmental Chemistry Laboratory
700 Heinz Avenue, Suite 100, Berkeley, CA 94710
Telephone: (510) 540-3003

LABORATORY REPORT--- MERCURY --- SOIL

Authorization No. : 11EC0085 **Priority:** 2

ECL No.: AV01592-AV01597 **Page:** 2 of 15

1. Sampling Location: WEI Mecca
   62 - 150 Gene Welmos Ave, Mecca, CA

2. Requestor' Name: Greg Neal
   Address: 5796 Corporate Avenue, Cypress, CA 90630

3. Sample (s) Information:
   Date Collected: 12/14-16/2011
   Date Received: 12/20/2011
   Date Extracted/Digested: Method: EPA 7473
   Date Analyzed: 1/3/2012 Method: EPA 7473

   Date data package was completed: 1/9/2012

Case narrative:

1. Initial calibration and continuing calibration criteria were met? ☑ Yes ☐ No
2. Calibration blank and continuing calibration blanks criteria were met? ☑ Yes ☐ No
3. QC parameters were within control limits? ☑ Yes ☐ No
4. Sample holding time was met? ☑ Yes ☐ No

Comments:

If any of the above answers is "NO", please explain below in detail.

Sample Prepared by: Caiyun Xu Date 1/10/2012
Caiyun Xu

Sample Analyzed by: Caiyun Xu Date 1/10/2012
Caiyun Xu

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94710

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

LABORATORY REPORT--- MERCURY --- SOIL

Authorization No. : 11EC0085 **Priority:** 2
ECL No.: AV01592-AV01597 **Page:** 3 of 15

Reference Method: EPA 7473 (Solid)

Analytical Procedure: Solid samples are dried and then thermally decomposed within the decomposition furnace. A stream of oxygen gas carries the decomposition procducts to the catalytic section of the furnace first, where potential interferents such as halogens and gaseous oxides are trapped. The remaining decomposition products are then carried to the amalgamator which selectively traps mercury. After the system is flushed with oxygen to remove any remaining gases or other decomposition products, the amalgamator is then rapidly heated to release the Hg as a vapor which is then carried to two AA spectrometer cells in tandem. The absorbance of mercury at 253.7 nm is measured, and the amount of mercury in the sample determined from appropriate calibration standards.

Date of Analysis	January 3, 2012						**TTLC Limit**
ECL NO.	AV01592	AV01593	AV01594		Method Blank	**Reporting Limit** (not corrected for dilution factor)	
Requestor's Sample No.	WEI - GL03-NE	WEI - GL07-NW	WEI- GL16-SW				
Matrix Type	Soil	Soil	Soil		Liquid		
Dilution Factor	1	1	1		1		
Units	mg/Kg	mg/Kg	mg/Kg		mg/Kg	mg/Kg	**mg/Kg**
Mercury - Hg	0.315	0.252	0.462		ND	0.02	**20**

Quantitation Limit = Reporting Limit (X) Dilution Factor

Qualifiers:

ND	Not detected < Quantitation Limit
J	Estimated value
B	Analyte found in method blank (MB)
B1	Analyte found in MB. Analyte conc. in the sample is greater than 10X the conc. found in MB
M	MS/MSD % Recovery below control limits
M2	MS/MSD % Recovery above control Limits
R	% RPD exceeded Control Limits
H	Holding Time exceeded

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94710

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

LABORATORY REPORT--- MERCURY --- SOIL

Authorization No. : 11EC0085 **Priority:** 2
ECL No.: AV01592-AV01597 **Page:** 4 of 15

Reference Method: EPA 7473 (Solid)

Analytical Procedure: Solid samples are dried and then thermally decomposed within the decomposition furnace. A stream of oxygen gas carries the decomposition procducts to the catalytic section of the furnace first, where potential interferents such as halogens and gaseous oxides are trapped. The remaining decomposition products are then carried to the amalgamator which selectively traps mercury. After the system is flushed with oxygen to remove any remaining gases or other decomposition products, the amalgamator is then rapidly heated to release the Hg as a vapor which is then carried to two AA spectrometer cells in tandem. The absorbance of mercury at 253.7 nm is measured, and the amount of mercury in the sample determined from appropriate calibration standards.

Date of Analysis	January 3, 2012						
ECL NO.	AV01595	AV01596	AV01597		Method Blank	**Reporting Limit** (not corrected for dilution factor	**TTLC Limit**
Requestor's Sample No.	WEI - GL20-W	WEI - UT03	WEI - UT06				
Matrix Type	Soil	Soil	Soil		Liquid		
Dilution Factor	1	1	1		1		
Units	mg/Kg	mg/Kg	mg/Kg		mg/Kg	mg/Kg	**mg/Kg**
Mercury - Hg	0.572	0.418	0.087		ND	0.02	**20**

Quantitation Limit = Reporting Limit (X) Dilution Factor

Qualifiers:

ND	Not detected < Quantitation Limit
J	Estimated value
B	Analyte found in method blank (MB)
B1	Analyte found in MB. Analyte conc. in the sample is greater than 10X the conc. found in MB
M	MS/MSD % Recovery below control limits
M2	MS/MSD % Recovery above control Limits
R	% RPD exceeded Control Limits
H	Holding Time exceeded

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Environmental Chemistry Laboratory
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LABORATORY QUALITY CONTROL REPORT --- MERCURY --- SOIL

Authorization No. : 11EC0085 **Priority:** 2
ECL No.: AV01592-AV01597 **Page:** 5 of 15

Quality Control Parameter	LABORATORY CONTROL SAMPLE							
Date of Analysis	January 3, 2012							
Matrix Type	Liquid							
		LCS		LCSD			Control Limits	
	True Value	Found	Recovery	Found	Recovery	RPD	Recovery	RPD
Units	mg/kg	mg/kg	%	mg/kg	%	%	%	%
Mercury -Hg	0.200	0.167	83%	0.184	92%	10.1%	80-120	20

Quality Control	SAMPLE REPLICATE ANALYSIS				
Date of Analysis	January 3, 2012				
Matrix Type	Soil				
ECL No.	AV01592				
	Sample	Duplicate			Control Limits
Units	mg/Kg	mg/Kg		RPD or RSD %	%
Mercury -Hg	0.315	0.318		0.5%	0-20

Qualifiers:

R **% RPD exceeded Control Limits**
ND Not Detected, < Quantitation Limit

Comments:

California Environmental Protection Agency
Department of Toxic Substances Control

Environmental Chemistry Laboratory

700 Heinz Avenue, Suite 100, Berkeley, CA 94710
Telephone: (510) 540-3003

LABORATORY QUALITY CONTROL REPORT --- MERCURY --- SOIL

Authorization No. : 11EC0085 **Priority:** 2

ECL No.: AV01592-AV01597 **Page:** 6 of 15

Quality Control Parameter	MATRIX SPIKE/MATRIX SPIKE DUPLICATE									
Date of Analysis	January 3, 2012									
Matrix Type	Soil									
	ECL No.:	AV01593	Matrix Spike		Matrix Spike Duplicate			MS/MSD RPD	Control Limits	
	Sample Unspiked	Spike Added to MS	Amount Recovered	Recovery	Spike Added to MSD	Amount Recovered	Recovery		Recovery	RPD
Units	mg/Kg	mg/Kg	mg/Kg	%	mg/Kg	mg/Kg	%	%	%	%
Mercury - Hg	0.252	0.200	0.438	93.1%	0.200	0.467	107%	6.3%	80-120	0-20

Qualifiers:

R	**% RPD exceeded Control Limits**
ND	Not Detected, < Quantitation Limit

Comments:

State of California
California Environmental Protection

Department of Toxic Substances Control
Environmental Chemistry Laboratory

SUPPLEMENTAL ☐
(Check if Supplemental Requested)

AUTHORIZATION REQUEST FORM (ARF)

PART A : (By Requestor - PLEASE PRINT)

*Unit chief's signature required: (for Rush or TAT Level = 1)

Turnaround Time (TAT) : *Rush ☐ *Level 1 ☐ 2 ☑ 3 ☐

Requestor's Name: Greg Neal — Email: gneal @dtsc.ca.gov — Phone (714) 484-5455
Region: 04--Cypress — Unit: BERP-Engineering & Geology — Fax (714) 484-5411
Back-up Requestor: Alfredo Zanoria — Phone (714) 484-5422
Site Name: Western Environmental Inc - Mecca

AREA CODE

PART B: Analytical Requests (By Requestor) (Lab uses default methods listed below. Please specify all other requests.)

Inorganic Analysis	Number of Samples/Type: Solid	Liquid	Water	Other
% Dry Solids (ECL730-S)				
Acidity (305-1)				
Alkalinity (310-1)				
Anions by IC (9056)				
Chromium VI(Cr^{6+}) by Colorimetric (7196A)				
Chromium VI(Cr^{6+}) in Water by IC (7199)				
Cyanides for Wastes,Leachates (9010B)	10 — TO ATL			
Hardness (130-2)				
Mercury(Hg) in (Semi)Solid Waste (7471A)	10			
Mercury(Hg) in Liquid Waste (7470A)				
Metals Screening by XRF				
Metals Scan (6010B, for As,Ba,Cu,Pb, etc)				
Metals Scan (for Drinking water, 6020A)				
OrganoLead in Waste (ECL938-M)				
Particle Size (ECL740-S)				
Perchlorate for Soil,Sludge (ECL955-M)				
Perchlorate for Water (314-0)				
pH (9040B, 9045C)				
Total Dissolved Solids (160-1)				
WET(ECL910-S) ☐ Only if necessary ☐ Do it regardless				
(others, type in)				

Organic Analysis	Number of Samples/Type: Solid	Liquid	Water	Other
GRO (Gasoline, 8015B)				
DRO(Diesel) only (ECL816-M)				
Motor Oil only (ECL816-M)				
DRO(Diesel) & Motor Oil (ECL816-M)				
EthyleneGlycol (ECL772-M)				
PBDEs (ECL750-M)				
PCBs (8082)				
Pesticides - Chlorinated (8081A)				
Pesticides - Organophosphate (8141A)	10 — TO ATL			
1,4-Dioxane (ECL830-S)				
GC/MS Semivolatiles (8270C)	10			
Volatiles (8260B)				
HPLC Carbonyl Compounds (8315A)				
Explosives (8330)				
PAHs (8310)	10			
Dioxins/Furans by HRGC/HRMS (ECL880-M)	10			
Flash Point (1020A)				
n-Hexane Extractables/TPH (1664)				
TXO-Total Halogens in Oil (ECL792-S)				
(others, type in)				
(others, type in)				

TCLP Analysis**						
Metals	☐ Only if necessary	☐ Do it regardless				
Mercury	☑ Only if necessary	☐ Do it regardless	10			
Volatiles	☐ Only if necessary	☐ Do it regardless				
Semivolatiles	☐ Only if necessary	☐ Do it regardless				
(others, type in)						

Other Analysis				
Fish Bioassay (Title 22)				
Congener PCBs (ECL-CG-PCB)				
Congener PBDEs (ECL-CG-PBDE)				
(others,type in)				
(others, type in)				

Analysis Objective: Site Characterization

Special Instructions or Comments (For Example: Detection Limit, Sample Preparation, Extraction..., etc.):

Lowest achieveable DLs. Dioxins/furans by EPA 8290 if DL is lower than ECL method. Cyanide by 9010 if DL is lower than 9014.

Expected Sample Arrival Date: 12/16/11 (mm/dd/yy)

PART C : (By SMO - ECL)

Authorization Number (AN): 11EC0085-~~BERP~~ EERP — ARF's Revision No. Initials: Date:

Lab to Receive Sample(s): Environmental Chemistry Lab, 700 Heinz Ave. Suite 150, Berkeley, CA 94710, Attn: Lloyd Williams (510) 540-2189 — ARF's Revision No. Initials: Date:

Sample Management Officer (SMO): LW

☐ Check box if cancelled — Initials: Date:

Today's Date: 12/09/11 (mm/dd/yy) — Expiration Date: 12/26/11 (mm/dd/yy)

If Sample(s) Directed to Contract Lab, Please Specify:

Reason:

ECL Personnel Confirmed:

ECL Contract Lab Manager Notification (for Rush or TAT Level =1):

Turnaround Time (TAT): * Rush for public health and safety or emergency, *Level 1 = 15 days, 2 = 30 days, 3 = 45 days.
**TCLP . If time permits and sample matrix type is appropriate, lab may analyze or screen the sample(s) first to determine if TCLP is needed.
Reference: ECL User's Manual.

State of California
California Environmental Protection Agency

Department of Toxic Substances Control
Environmental Chemistry Laboratory

ENVIRONMENTAL CHEMISTRY LABORATORY SAMPLE ANALYSIS REQUEST

1. Authorization Number: 11EC0085

ECL No.: AV01592 To AV01597

2. Page 1 of 1

3. Requestor: (to Receive Results) a. Name: Greg Neal
b. Address: 5796 Corporate Avenue (street number)
Cypress Ca 90630 (city, state, zip)
c. Phone: 7144845455 (area code first) d. Fax: 7144845411 (area code first)
e. Email: gneal@dtsc.ca.gov @dtsc.ca.gov

4. Project Name (if applicable): WEI Mecca

5. TAT Level: 2

6. Sampling Information: a. Date/Time Sampled: 12/14-12/16/11 (mm/dd/yy)
b. Location: EPA ID No. (#:## AM/PM)
Site: WEI Mecca
Address: 62-150 Gene Welmas Ave (street number)
Mecca Ca (city, state, zip)
GPS-Lat: GPS-Long:
GPS-Alt: GPS-Depth:

7. Codes (select from drop down list or fill in if applicable)
a. Unit: EERP - Chatsworth — LW
b. INDEX: 6310
c. PCA: 36195
d. MPC: 962
e. SITE: 551115-48
f. County: Riverside

8. Samples:

	a. ID	b. Collector's No.	c. ECL No.	d. Matrix	e. Container Size	f. Number of containers	g. Preservative / Field Information
1	WEI-GL03-NE		AV01592	Soil	3-8oz 2-4oz 3-VOA	8 12/14 10:04	ICE Methanol Sodium Bisulfate
2	WEI-GL07-NW		AV01593	Soil	3-8oz 2-4oz 3-VOA	12/14 13:24 16	ICE Methanol Sodium Bisulfate
~~3~~	~~WEI-GL07-NW DUP~~			~~Soil~~	~~3-8oz 2-4oz 3-VOA~~	~~8~~	~~ICE Methanol Sodium Bisulfate~~
4	WEI-GL16-SW		AV01594	Soil	3-8oz 2-4oz 3VOA	8 12/15 9:04	ICE Methanol Sodium Bisulfate
5	WEI-GL20-W		AV01595	Soil	3-8oz 2-4oz 3VOA	8 12/15 3:24	ICE Methanol Sodium Bisulfate
6	WEI-UT03		AV01596	Soil	3-8oz 2-4oz 3VOA	8 12/16 9:09	ICE Methanol Sodium Bisulfate
7	WEI-UT06		AV01597	Soil	3-8oz 2-4oz 3VOA	8 12/16 11:07	ICE Methanol Sodium Bisulfate
8	WEI-Blank			liquid	3VOA	3	Methanol Sodium Bisulfate
9							

9. Analysis Requested: Enter sample IDs and sample ID ranges separated by commas: For example, 1-3, 5-7, 9

a. Inorganic Analysis	Sample(s) ID	b. Organic Analysis	Sample(s) ID
· Cyanide	1,2,4,5,6,7,8	· Chlorinated Pesticides	1,2,4,5,6,7
· Mercury	1,2,4,5,6,7,	· Organophosphate Pesticides	1,2,4,5,6,7
· Metals	1,2,4,5,6,7	· VOCs	1,2,3,4,5,6,7,8
· pH	1,2,4,5,6,7	· PCBs	1,2,4,5,6,7
· Hexavalent Chromium	1,2,4,5,6,7	· SVOCs	1,2,4,5,6,7
		· PAHs	1,2,4,5,6,7
		· Dioxins/furans	1,2,4,5,6,7
Other Metals:			

c. TCLP Analysis		d. Other Analysis
Metals only if necessary	1,2,4,5,6,7	
Mercury only if necessary	1,2,4,5,6,7	

FIELD

e. Comments for Multiphasic Samples/Analysis Priority:

10. Analysis Objective: Human Health Risk

11. Detection Limit Requirements: (Check ECL User's Manual to assure default DL is sufficient.)
Lowest Achievable

12. Supplemental Requests: Enter sample IDs as described in Item 9

Desired Analysis	Sample(s) ID

Initials
Date

ECL

13. ECL Lab Remarks:
ECL Berkeley received on 14 Samples in this batch. LW

LAB

14. Chain of Custody:

	Name	Title	Signature	Inclusive Dates of Custody
a.	Greg Neal	Geologist	Greg Neal	12/14/11 to 12/16/11
b.	Alfredo Zamora	Geologist	[illegible]	12/16/11 to 12/19/11
c.	Greg Neal	Geologist	Greg Neal	12/19/11 to 12/19/11
d.	Barbara Bush	Lab Tech	Barbara Bush	12/19/11 to 12/19/11
e.	Lloyd Williams	Lab Asst	Lloyd Williams	12/20/11 to
f.				to
g.				to

COC

Department of Toxic Substances Control
Environmental Chemistry Laboratory
700 Heinz Avenue, Suite 150, Berkeley, CA 94710
Phone: (510) 540-3610 Fax: (510) 540-3615

ECL SAMPLE RECEIPT

Printed on: 12/20/2011

Authorization No: **11EC0085_EERP**

Collector: Greg Neal

Date Collected: 12/14/2011

Date Lab Received: 12/20/2011

Sampling Site: WEI MECCA
62-150 Gene Welmos Ave.

ECL No.	Collector's No.	Sample Matrix	Container		Approximate Amount Rec' D	Custody Seals	Seal Location	Sample Condition	Action Taken
			Type	Size					
AV01592	WEI-GL03-NE	Soil	glass	2(1-8oz, 1-4oz glass jar)	4oz-176.2; 8oz-306.2	Absent		Acceptable	
AV01593	WEI-GL07-NW	Soil	glass	4(2-8oz, 2-4oz glass jar)	4oz-131.4; 8oz-232.7	Absent		Acceptable	
AV01594	WEI-GL16-SW	Soil	glass	2(1-8oz, 1-4oz glass jar)	4oz-179.6; 8oz-320.2	Absent		Acceptable	
AV01595	WEI-GL20-W	Soil	glass	2(1-8oz, 1-4oz glass jar)	4oz-151.6; 8oz-339.7	Absent		Acceptable	
AV01596	WEI-UT03	Soil	glass	2(1-8oz, 1-4oz glass jar)	4oz-164.7; 8oz-307.4	Absent		Acceptable	
AV01597	WEI-UT06	Soil	glass	2(1-8oz, 1-4oz glass jar)	4oz-185.6; 8oz-338.4	Absent		Acceptable	

Comments:

Sample(s) processed by: Lloyd Williams Signature: [signature] Date: 12/20/11

Supervisor's approval (if any action taken): Signature: Date:

Environmental Chemistry Laboratory
700 Heinz, Suite 150, Berkeley CA 94710
Telephone: (510)540-2955 FAX: (510)540-2305

Sample Receipt Checklist

Authorization No: HEC0085 E+ERP

ECL No: AU01592-AU01597 Collector's No: see SAR

Sample Criteria	Yes Acceptable	No
1. Samples received in cooler/ice chest?	✓	
2. Cooler/ice chest packed with ice?	✓	
3. Cooler/ice chest temperature within 4°C ± 2°C? 4.6 °C	✓	
4. Sample condition acceptable (intact and not damaged)?	✓	
5. Custody seals present?		✓
6. If Yes, Custody seals intact?		
7. Samples in proper containers? (See Table 1 & 2)	✓	
8. VOA aqueous samples in 40 ml VOA vials and no headspace?.		
9. Sufficient volume/amount for analyses? (See Table 1&2)	✓	
10. ~~Sample Analysis Request Form SAR received?~~	✓	
11. SAR complete?	✓	
12. No. of samples in SAR and the no. of samples in APF agree within 20%?	✓	
13. Sample labels agree with SAR? Some labels smeared	✓	
14. Sample labels legible and numbered?	✓	
15. Chain of Custody complete? Name printed, signed and dated?	✓	
16. Samples properly preserved?	✓	
17. If received by Fed EX, air bill/packing slip signed, dated and made copy for file?		

If No, check for corrective action taken:

_____ Sample analysis on hold for further information _____ inform collector of the problem

✓ Samples analyzed as received _____ Corrected

_____ Other (specify) _____

Received and Completed by: Lloyd Williams

Signature: [signature] Date: 12/20/11

Supervisor's Approval: _____ Date: _____

If any correction taken:

FedEx Express **NEW Package US Airbill**

FedEx Tracking Number 8768 1923 1435

0200 Form ID No.

FedEx Retrieval Copy

1 From

Date 12-19-11 Sender's FedEx Account Number 3203-0960-3

Sender's Name B BUSH Phone 213 482-9244

Company DTSC - ECI-LA

Address 1449 W Temple Dept./Floor/Suite/Room

City Los Angeles State CA ZIP 90026

2 Your Internal Billing Reference

3 To

Recipient's Name Sample Rec'g Phone

Company DTSC ECL Ste 150

Address 700 Heinz Ave Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

01 ☐ HOLD Weekday — FedEx location address REQUIRED. NOT available for FedEx First Overnight.

31 ☐ HOLD Saturday — FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City Berkeley State CA ZIP 94710

716

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8768 1923 1435

4 Express Package Service * To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs. For packages over 150 lbs., use the new FedEx Express Freight US Airbill.

Next Business Day

06 ☐ FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

01 ☒ FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

05 ☐ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

49 ☐ NEW FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.

03 ☐ FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

20 ☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

06 ☐ FedEx Envelope* 02 ☐ FedEx Pak* 03 ☐ FedEx Box 04 ☐ FedEx Tube 01 ☒ Other

6 Special Handling and Delivery Signature Options

03 ☐ **SATURDAY DELIVERY**

☒ No Signature Required — Package may be left without obtaining a signature for delivery.

10 ☐ Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*

34 ☐ Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods?

One box must be checked.

☒ No 04 ☐ Yes — As per attached Shipper's Declaration. ☐ Yes — Shipper's Declaration not required. 06 ☐ Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

☐ Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No. ☐

1 ☒ Sender — Acct. No. in Section 1 will be billed. 2 ☐ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check

[redacted]

Total Packages 1 Total Weight 23 lbs. Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

612

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FedEx TRK# 0200 8768 1923 1435

TUE - 20 DEC A1
PRIORITY OVERNIGHT

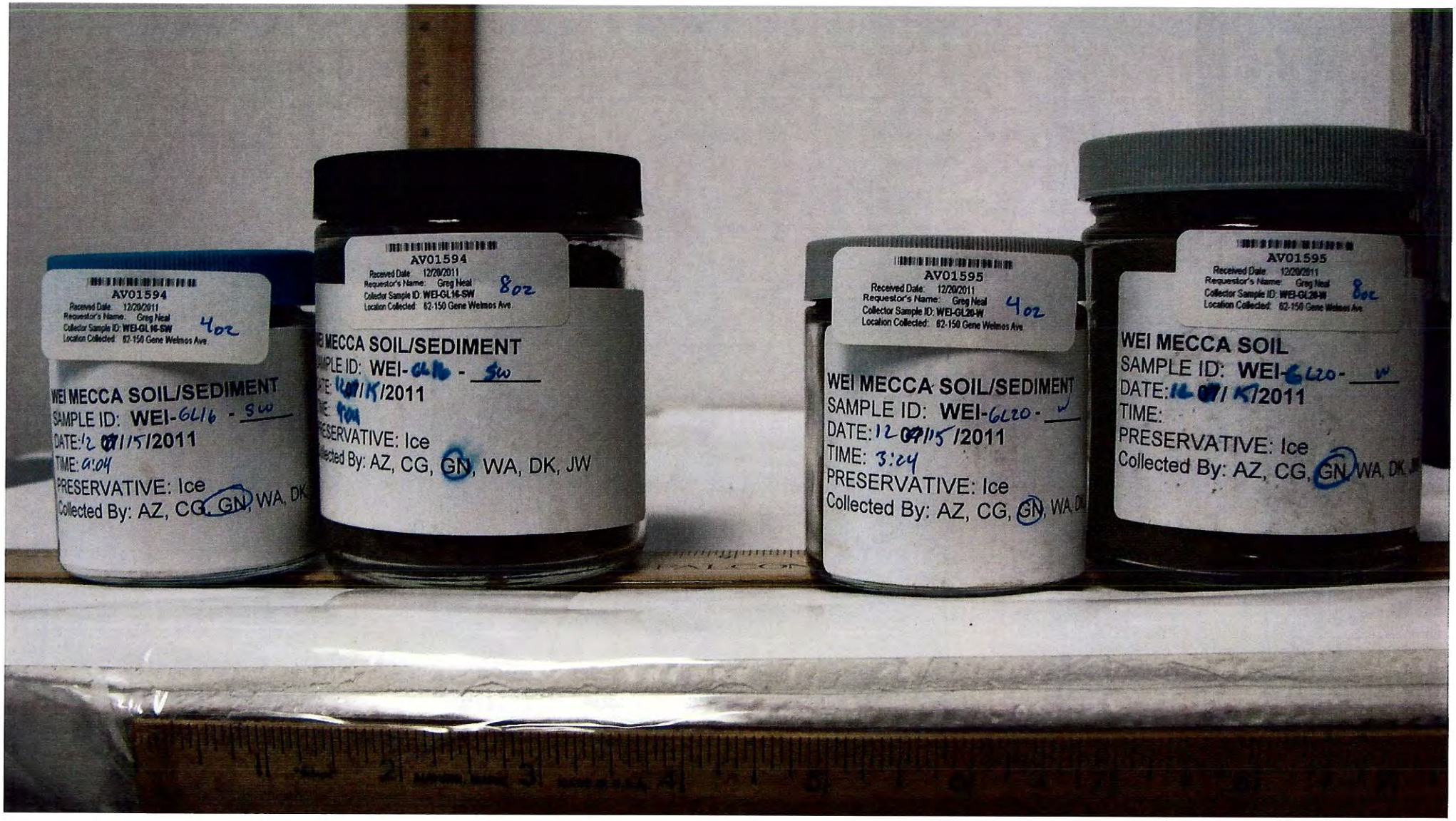
94710
CA-US
OAK

81 JEMA

Emp# 488149 19DEC11 JGXA 50FC1/869F/F5F4

AV01592
Received Date: 12/20/2011
Requestor's Name: Greg Neal
Collector Sample ID: WEI-GL03-NE
Location Collected: 62-150 Gene Welmos Ave.
4oz
WEI MECCA SOIL
SAMPLE ID: WEI-GL03 - NE
DATE: 12/14/2011
TIME: 10:04
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-GL03 - NE
DATE: 12/14/2011
TIME: 10:04
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK, JW
AV01592
Received Date: 12/20/2011
Requestor's Name: Greg Neal
Collector Sample ID: WEI-GL03-NE
Location Collected: 62-150 Gene Welmos Ave.
8oz
AV01593
Received Date: 12/20/2011
Requestor's Name: Greg Neal
Collector Sample ID: WEI-GL07-NW
Location Collected: 62-150 Gene Welmos Ave.
4oz
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-GL07 - NW
DATE: 12/14/2011
TIME: 1324
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK
AV01593
Received Date: 12/20/2011
Requestor's Name: Greg Neal
Collector Sample ID: WEI-GL07-NW
Location Collected: 62-150 Gene Welmos Ave.
8oz
WEI MECCA SOIL
SAMPLE ID: WEI-GL07 - NW
DATE: 12/14/2011
TIME: 1324
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK, JW

AV01593
Received Date: 12/20/2011
Requestor's Name: Greg Neal
Collector Sample ID: WEI-GL07-NW
Location Collected: 62-150 Gene Welmos Ave.
Dup
4oz
WEI MECCA SOIL
SAMPLE ID: WEI-GL07 - NW
DATE: 12/14/2011
TIME: 13:00
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK
AV01593
Received Date: 12/20/2011
Requestor's Name: Greg Neal
Collector Sample ID: WEI-GL07-NW
Location Collected: 62-150 Gene Welmos Ave.
Dup
8oz
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-GL07 - NW
DATE: 12/14/2011
TIME: 13:00
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK, JW


AV01594
Received Date: 12/20/2011
Requestor's Name: Greg Neal
Collector Sample ID: WEI-GL16-SW
Location Collected: 62-150 Gene Welmos Ave
4oz
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-GL16 - SW
DATE: 12/15/2011
TIME: 9:04
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK
AV01594
Received Date: 12/20/2011
Requestor's Name: Greg Neal
Collector Sample ID: WEI-GL16-SW
Location Collected: 62-150 Gene Welmos Ave
8oz
MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-GL16 - SW
/2011
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK, JW
AV01595
Received Date: 12/20/2011
Requestor's Name: Greg Neal
Collector Sample ID: WEI-GL20-W
Location Collected: 62-150 Gene Welmos Ave
4oz
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-GL20 - W
DATE: 12/15/2011
TIME: 3:24
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK
AV01595
Received Date: 12/20/2011
Requestor's Name: Greg Neal
Collector Sample ID: WEI-GL20-W
Location Collected: 62-150 Gene Welmos Ave
8oz
WEI MECCA SOIL
SAMPLE ID: WEI-GL20 - W
DATE: 12/15/2011
TIME:
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK, JW

AV01596
Received Date: 12/20/2011
Requestor's Name: Greg Neal
Collector Sample ID: WEI-UT03
Location Collected: 62-150 Gene Welmos Ave.
4oz
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-UT03 -
DATE: 12/16/2011
TIME: 9:23
PRESERVATIVE: Ice
Collected By: AZ, CG, GN WA
AV01596
Received Date: 12/20/2011
Requestor's Name: Greg Neal
Collector Sample ID: WEI-UT03
Location Collected: 62-150 Gene Welmos Ave.
8oz
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-UT03 -
DATE: 12/16/2011
TIME: 9:23
PRESERVATIVE: Ice
Collected By: AZ, CG, GN WA, DK, JW
AV01597
Received Date: 12/20/2011
Requestor's Name: Greg Neal
Collector Sample ID: WEI-UT06
Location Collected: 62-150 Gene Welmos Ave.
4oz
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-UT06 -
DATE: 12/16/2011
TIME: 11:07
PRESERVATIVE: Ice
Collected By: AZ, CG, GN WA, DK
AV01597
Received Date: 12/20/2011
Requestor's Name: Greg Neal
Collector Sample ID: WEI-UT06
Location Collected: 62-150 Gene Welmos Ave.
8oz
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-UT06 -
DATE: 12/16/2011
TIME: 11:07
PRESERVATIVE: Ice
Collected By: AZ, CG, GN WA, DK

California Environmental Protection Agency
Department of Toxic Substances Control
Environmental Chemistry Laboratory
700 Heinz Avenue, Suite 100, Berkeley, CA 94710
Telephone: (510) 540-3003

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

LABORATORY REPORT---SEMIVOLATILE ORGANICS BY GC/MS

Authorization No. : 11EC0085
ECL No.: AV01592 - AV01597

Requestor's Name: Greg Neal
Address: 5796 Corporate Ave., Cypress, CA 90630

Sampling Location: WEI MECCA
62-150 Gene Welmos Ave., Mecca, CA

Table of Contents

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Sample Analysis Request	12
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The results listed within this report pertain only to the samples tested in the laboratory. These results have been reviewed for technical correctness and completeness. This report was reviewed and approved for release.

Report Reviewed by: Carol Wortham, Staff Chemist — Date 1/6/2012

Report Approved by: John Quinn Ph.D, Section Chief — Date 1/6/2012

California Environmental Protection Agency
Department of Toxic Substances Control
Environmental Chemistry Laboratory
700 Heinz Avenue, Suite 100, Berkeley, CA 94710
Telephone: (510) 540-3003

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

LABORATORY REPORT---SEMIVOLATILE ORGANICS BY GC/MS

Authorization No. : 11EC0085 **Priority:** 2

ECL No.: AV01592 - AV01597 **Page:** 2 of 19

1. Sampling Location: WEI MECCA
   62-150 Gene Welmos Ave., Mecca CA

2. Requestor' Name: Greg Neal
   Address: 5796 Corporate Ave., Cypress, CA 90630

3. Sample (s) History:
   Date Collected: 12/14-16/2011
   Date Received: 12/20/2011
   Date Extracted/Digested: 12/28/2011 Method: Shake Extraction
   Date Analyzed: 1/3/2012 ; 1/4/2012 Method: EPA 8270D

   Date data package was completed: 1/5/2012

Case narrative:

1. Initial calibration and continuing calibration criteria were met? ☐ Yes ☑ No
2. DFTPP tune check criteria met? ☑ Yes ☐ No
3. Method blank criteria were met? ☐ Yes ☑ No
4. QC parameters were within control limits? ☐ Yes ☑ No
5. Surrogate standards were within control limits? ☑ Yes ☐ No
6. RRT window criteria met? ☑ Yes ☐ No
7. Sample holding time was met? ☑ Yes ☐ No

Comments:

If any of the above answer is "NO" please explain in details.

[1]%RPD on calibration curve for 2,4-Dinitrophenol was 4% high above the acceptable criteria. 2,4-Dinitrophenol did not pass criteria on CCVs that ran on 1/3/2012 and 1/4/2012, but initial screens of samples on 12/28/2011 and 1/2/2012 did not detect presence of compound. 4,6-Dinitro-2-methylphenol did not pass CCV criteria on 1/3/2012, but initial screens on 12/28/2011 and 1/2/2012 did not detect compound in samples. Benzo[a]anthracene gave high readings on CCVs on 1/3/2012 and 1/4/2012, but compound was not detected in samples. [3]Method blank detected presence of Di-n-butyl phthalate, possibly due to comtanination from gloves or other plastics. [4]N-Nitroso-di-n-propylamine had high recovery in the matrix spike (MS), but %RPD for MS/MSD was within criteria and compound was not detected in samples. Several compounds were not detected in MS and MSD because of the high dilution factor that diluted compounds below quantitation limits. [5]Some surrogates were not recovered (NR) in samples and matrix spikes because of the high dilution factors that diluted surrogates below quantitation limits. Samples required dilutions because of the dirtiness of extracts, exemplified by the raised baseline observed on the chromatograms of the samples. Running the samples any more concentrated caused QC failures for the internal standards.

Sample Prepared by:
Mui Sam Date 1/6/2012
Mui Sam, Research Scientist

Sample Analyzed by:
Mui Sam Date 1/6/2012
Mui Sam, Research Scientist

California Environmental Protection Agency
Department of Toxic Substances Control
Environmental Chemistry Laboratory
700 Heinz Avenue, Suite 100, Berkeley, CA 94710
Telephone: (510) 540-3003

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

LABORATORY REPORT---SEMIVOLATILE ORGANICS BY GC/MS

Authorization No. : 11EC0085 **Priority:** 2
ECL No.: AV01592 - AV01597 Page: 3 of 19

Reference Method: EPA 8270D
Analytical Procedure: Samples are extracted by either shaker table or method 3550C sonication and then analyzed using electron impact full scan capillary gas chromatography-mass spectrometry.

ECL NO.		AV01592	AV01593	AV01594	AV01595	AV01596	Method Blank	Reporting Limit (not corrected for dilution)
Requestor's No		WEI-GL03-NE	WEI-GL07-NW	WEI-GL16-SW	WEI-GL20-W	WEI-UT03		
Extraction Date		12/28/2011	12/28/2011	12/28/2011	12/28/2011	12/28/2011	12/28/2011	
Analysis Date		1/3/2012	1/3/2012	1/3/2012	1/4/2012	1/4/2012	1/3/2012	
Instrument Dilution Factor		4	4	10	10	10	1	
Matrix Type		Soil	Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Compounds:	CAS #							
Acenaphthylene	208-96-8	ND	ND	ND	ND	ND	ND	0.5
Acenaphthene	83-32-9	ND	ND	ND	ND	ND	ND	0.5
Anthracene	120-12-7	ND	ND	ND	ND	ND	ND	0.5
Benzo(a)anthracene	56-55-3	ND	ND	ND	ND	ND	ND	0.5
Benzo(a)pyrene	50-32-8	ND	ND	ND	ND	ND	ND	0.5
Benzo(b)fluoranthene	205-99-2	ND	ND	ND	ND	ND	ND	0.5
Benzo(g,h,I)perylene	191-24-2	ND	ND	ND	ND	ND	ND	0.5
Benzo(k)fluoranthene	207-08-9	ND	ND	ND	ND	ND	ND	0.5
Benzyl alcohol	100-51-6	ND	ND	ND	ND	ND	ND	0.5
Bis(2-chloroethoxy)methane	111-91-1	ND	ND	ND	ND	ND	ND	0.5
Bis(2-chloroethyl)ether	111-44-4	ND	ND	ND	ND	ND	ND	0.5
Bis(2-chloroisopropyl)ether	39638-32-9	ND	ND	ND	ND	ND	ND	0.5
Bis(2-ethylhexyl)phthalate	117-81-7	ND	ND	ND	ND	ND	ND	0.5
4-bromophenyl phenyl ether	101-55-3	ND	ND	ND	ND	ND	ND	0.5
butyl benzyl phthalate	85-68-7	ND	ND	ND	ND	ND	ND	0.5
Carbazole	86-74-8	ND	ND	ND	ND	ND	ND	0.5
4-Chloroaniline	106-47-8	ND	ND	ND	ND	ND	ND	0.5
4-chloro-3-methylphenol	59-50-7	ND	ND	ND	ND	ND	ND	0.5
2-Chloronaphthalene	91-58-7	ND	ND	ND	ND	ND	ND	0.5
2-Chlorophenol	95-57-8	ND	ND	ND	ND	ND	ND	0.5
4-chlorophenyl phenyl ether	7005-72-3	ND	ND	ND	ND	ND	ND	0.5
Chrysene	218-01-9	ND	ND	ND	ND	ND	ND	0.5
Dibenzo(a,h)anthracene	53-70-3	ND	ND	ND	ND	ND	ND	0.5
Dibenzofuran	132-64-9	ND	ND	ND	ND	ND	ND	0.5
1,2-Dichlorobenzene	95-50-1	ND	ND	ND	ND	ND	ND	0.5
1,3-Dichlorobenzene	541-73-1	ND	ND	ND	ND	ND	ND	0.5
1,4-Dichlorobenzene	106-46-7	ND	ND	ND	ND	ND	ND	0.5
3,3'-Dichlorobenzidine	91-94-1	ND	ND	ND	ND	ND	ND	0.5
2,4-Dichlorophenol	120-83-2	ND	ND	ND	ND	ND	ND	0.5
Diethyl phthalate	84-66-2	ND	ND	ND	ND	ND	ND	0.5
Dimethyl phthalate	131-11-3	ND	ND	ND	ND	ND	ND	0.5
2,4-Dimethylphenol	105-67-9	ND	ND	ND	ND	ND	ND	0.5
Di-n-butyl phthalate	84-72-2	ND	ND	ND	ND	ND	0.612*	0.5
Di-n-octyl phthalate	117-84-0	ND	ND	ND	ND	ND	ND	0.5
2,4-Dinitrophenol J	51-28-5	ND	ND	ND	ND	ND	ND	2.0
2,4-Dinitrotoluene	121-14-2	ND	ND	ND	ND	ND	ND	0.5
2,6-Dinitrotoluene	606-20-2	ND	ND	ND	ND	ND	ND	0.5
Fluorene	86-73-7	ND	ND	ND	ND	ND	ND	0.5
Fluoranthene	206-44-0	ND	ND	ND	ND	ND	ND	0.5
Hexachlorobenzene	118-74-1	ND	ND	ND	ND	ND	ND	0.5
Hexachlorobutadiene	87-68-3	ND	ND	ND	ND	ND	ND	0.5
Hexachlorocyclopentadiene	77-47-4	ND	ND	ND	ND	ND	ND	0.5

*Di-n-butyl pthalate was detected in Method Blank, possibly due to contamination from gloves or other plastics.

J = 2,4-Dinitrophenol was outside criteria in the initial calibration and low in the continuing calibrations. Results are estimated.

Not Detected < Quantitation Limit

Quantitation limit = (Reporting Limit) * (Dilution Factor)

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

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LABORATORY REPORT---SEMIVOLATILE ORGANICS BY GC/MS

Authorization No. : 11EC0085 **Priority:** 2
ECL No.: AV01592 - AV01597 Page: 4 of 19

Reference Method: EPA 8270D
Analytical Procedure: Samples are extracted by either shaker table or method 3550C sonication and then analyzed using electron impact full scan capillary gas chromatography-mass spectrometry.

ECL NO.		AV01592	AV01593	AV01594	AV01595	AV01596	Method Blank	Reporting Limit (not corrected for dilution)
Requestor's No		WEI-GL03-NE	WEI-GL07-NW	WEI-GL16-SW	WEI-GL20-W	WEI-UT03		
Extraction Date		12/28/2011	12/28/2011	12/28/2011	12/28/2011	12/28/2011	12/28/2011	
Analysis Date		1/3/2012	1/3/2012	1/3/2012	1/4/2012	1/4/2012	1/3/2012	
Instrument Dilution Factor (Df)		4	4	10	10	10	1	
Matrix Type		Soil	Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Compounds:	CAS #							
Hexachloroethane	67-72-1	ND	ND	ND	ND	ND	ND	0.5
Isophorone	78-59-1	ND	ND	ND	ND	ND	ND	0.5
Ideno(1,2,3-c,d)pyrene	193-39-5	ND	ND	ND	ND	ND	ND	0.5
2-methyl-4,6-dinitrophenol	534-52-1	ND J	ND J	ND J	ND	ND	ND J	1.0
2-methylnaphthalene	91-57-6	ND	ND	ND	ND	ND	ND	0.5
2-methylphenol	95-48-7	ND	ND	ND	ND	ND	ND	0.5
3-& 4-Methylphenol	106-44-5	ND	ND	ND	ND	ND	ND	0.5
Naphthalene	91-20-3	ND	ND	ND	ND	ND	ND	0.5
Nitrobenzene	98-95-3	ND	ND	ND	ND	ND	ND	0.5
2-Nitroaniline	88-74-4	ND	ND	ND	ND	ND	ND	0.5
3-Nitroaniline	99-09-2	ND	ND	ND	ND	ND	ND	0.5
4-Nitroaniline	100-01-6	ND	ND	ND	ND	ND	ND	0.5
2-Nitrophenol	88-75-5	ND	ND	ND	ND	ND	ND	0.5
4-Nitrophenol	100-02-7	ND	ND	ND	ND	ND	ND	0.5
n-Nitrosodiphenylamine	86-30-6	ND	ND	ND	ND	ND	ND	0.5
n-Nitrosodi-n-propylamine	621-64-7	ND	ND	ND	ND	ND	ND	0.5
Pentachlorophenol	87-86-5	ND	ND	ND	ND	ND	ND	0.5
Phenanthrene	85-01-8	ND	ND	ND	ND	ND	ND	0.5
Phenol	108-95-2	5.05	ND	ND	ND	ND	ND	0.5
Pyrene	129-00-0	ND	ND	ND	ND	ND	ND	0.5
1,2,4-Trichlorobenzene	120-82-1	ND	ND	ND	ND	ND	ND	0.5
2,4,6-Trichlorophenol	88-06-2	ND	ND	ND	ND	ND	ND	0.5
2,4,5-Trichlorophenol	95-95-4	ND	ND	ND	ND	ND	ND	0.5
Surrogate Standards:	% Recovery							
2-Fluorophenol	367-12-4	73	71	71	78	93	93	
Phenol-d5	13127-88-3	84	74	77	78	97	96	
Nitrobenzene-d5	4165-60-0	82	74	**NR**	**NR**	**NR**	97	
2-Fluorobiphenyl	321-60-8	98	85	**NR**	**NR**	110	98	
2,4,6-Tribromophenol	118-79-6	95	106	74	101	114	106	
Terphenyl-d14	1718-51-0	107	102	**NR**	107	112	109	

Surrogate Control Limits	Solid	
2-Fluorophenol	70	130
Phenol-d5	70	130
Nitrobenzene-d5	70	130
2-Fluorobiphenyl	70	130
2,4,6-Tribromophenol	70	130
Terphenyl-d14	70	130

ND = Not Detected < Quantitation Limit
NR = Not Recovered (For Surrogate Standards)
Quantitation Limit = (Reporting Limit) x (Dilution Factor)

Several surrogates were not recovered (NR) due to the high dilution factor of samples that diluted surrogates below quantitation limits.

J = estimated value; compound response was low outside criteria in the continuing calibration standard.

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

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LABORATORY REPORT---SEMIVOLATILE ORGANICS BY GC/MS

Authorization No. : 11EC0085 **Priority:** 2

ECL No.: AV01592 - AV01597 Page: 5 of 19

Reference Method: EPA 8270D

Analytical Procedure: Samples are extracted by either shaker table or method 3550C sonication and then analyzed using electron impact full scan capillary gas chromatography-mass spectrometry.

ECL NO.		AV001597					Method Blank	Reporting Limit (not corrected for dilution)
Requestor's No		WEI-UT06						
Extraction Date		12/28/2011					12/28/2011	
Analysis Date		1/4/2012					1/3/2011	
Instrument Dilution Factor		20					1	
Matrix Type		Soil					Soil	
Units		mg/Kg					mg/Kg	
Compounds:	CAS #							
Acenaphthylene	208-96-8	ND					ND	0.5
Acenaphthene	83-32-9	ND					ND	0.5
Anthracene	120-12-7	ND					ND	0.5
Benzo(a)anthracene	56-55-3	ND					ND	0.5
Benzo(a)pyrene	50-32-8	ND					ND	0.5
Benzo(b)fluoranthene	205-99-2	ND					ND	0.5
Benzo(g,h,I)perylene	191-24-2	ND					ND	0.5
Benzo(k)fluoranthene	207-08-9	ND					ND	0.5
Benzyl alcohol	100-51-6	ND					ND	0.5
Bis(2-chloroethoxy)methane	111-91-1	ND					ND	0.5
Bis(2-chloroethyl)ether	111-44-4	ND					ND	0.5
Bis(2-chloroisopropyl)ether	39638-32-9	ND					ND	0.5
Bis(2-ethylhexyl)phthalate	117-81-7	ND					ND	0.5
4-bromophenyl phenyl ether	101-55-3	ND					ND	0.5
butyl benzyl phthalate	85-68-7	ND					ND	0.5
Carbazole	86-74-8	ND					ND	0.5
4-Chloroaniline	106-47-8	ND					ND	0.5
4-chloro-3-methylphenol	59-50-7	ND					ND	0.5
2-Chloronaphthalene	91-58-7	ND					ND	0.5
2-Chlorophenol	95-57-8	ND					ND	0.5
4-chlorophenyl phenyl ether	7005-72-3	ND					ND	0.5
Chrysene	218-01-9	ND					ND	0.5
Dibenzo(a,h)anthracene	53-70-3	ND					ND	0.5
Dibenzofuran	132-64-9	ND					ND	0.5
1,2-Dichlorobenzene	95-50-1	ND					ND	0.5
1,3-Dichlorobenzene	541-73-1	ND					ND	0.5
1,4-Dichlorobenzene	106-46-7	ND					ND	0.5
3,3'-Dichlorobenzidine	91-94-1	ND					ND	0.5
2,4-Dichlorophenol	120-83-2	ND					ND	0.5
Diethyl phthalate	84-66-2	ND					ND	0.5
Dimethyl phthalate	131-11-3	ND					ND	0.5
2,4-Dimethylphenol	105-67-9	ND					ND	0.5
Di-n-butyl phthalate	84-72-2	ND					0.612*	0.5
Di-n-octyl phthalate	117-84-0	ND					ND	0.5
2,4-Dinitrophenol J	51-28-5	ND					ND	2.0
2,4-Dinitrotoluene	121-14-2	ND					ND	0.5
2,6-Dinitrotoluene	606-20-2	ND					ND	0.5
Fluorene	86-73-7	ND					ND	0.5
Fluoranthene	206-44-0	ND					ND	0.5
Hexachlorobenzene	118-74-1	ND					ND	0.5
Hexachlorobutadiene	87-68-3	ND					ND	0.5
Hexachlorocyclopentadiene	77-47-4	ND					ND	0.5

*Di-n-butyl pthalate was detected in Method Blank, possibly due to contamination from gloves or other plastics.

J = 2,4-Dinitrophenol was outside criteria in the initial calibration and low in the continuing calibrations. Results are estimated.

Not Detected < Quantitation Limit

Quantitation limit = (Reporting Limit) * (Dilution Factor)

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LABORATORY REPORT---SEMIVOLATILE ORGANICS BY GC/MS

Authorization No. : 11EC0085 **Priority:** 2
ECL No.: AV01592 - AV01597 Page: 6 of 19

Reference Method: EPA 8270D
Analytical Procedure: Samples are extracted by either shaker table or method 3550C sonication and then analyzed using electron impact full scan capillary gas chromatography-mass spectrometry.

ECL NO.		AV01597					Method Blank	**Reporting Limit (not corrected for dilution)**
Requestor's No		WEI-UT06						
Extraction Date		12/28/2011					12/28/2011	
Analysis Date		1/4/2012					1/3/2012	
Instrument Dilution Factor (Df)		20					1	
Matrix Type		Soil					Soil	
Units		mg/Kg					mg/Kg	
Compounds:	CAS #							
Hexachloroethane	67-72-1	ND					ND	0.5
Isophorone	78-59-1	ND					ND	0.5
Ideno(1,2,3-c,d)pyrene	193-39-5	ND					ND	0.5
2-methyl-4,6-dinitrophenol	534-52-1	ND					ND J	1.0
2-methylnaphthalene	91-57-6	ND					ND	0.5
2-methylphenol	95-48-7	ND					ND	0.5
3-& 4-Methylphenol	106-44-5	ND					ND	0.5
Naphthalene	91-20-3	ND					ND	0.5
Nitrobenzene	98-95-3	ND					ND	0.5
2-Nitroaniline	88-74-4	ND					ND	0.5
3-Nitroaniline	99-09-2	ND					ND	0.5
4-Nitroaniline	100-01-6	ND					ND	0.5
2-Nitrophenol	88-75-5	ND					ND	0.5
4-Nitrophenol	100-02-7	ND					ND	0.5
n-Nitrosodiphenylamine	86-30-6	ND					ND	0.5
n-Nitrosodi-n-propylamine	621-64-7	ND					ND	0.5
Pentachlorophenol	87-86-5	ND					ND	0.5
Phenanthrene	85-01-8	ND					ND	0.5
Phenol	108-95-2	ND					ND	0.5
Pyrene	129-00-0	ND					ND	0.5
1,2,4-Trichlorobenzene	120-82-1	ND					ND	0.5
2,4,6-Trichlorophenol	88-06-2	ND					ND	0.5
2,4,5-Trichlorophenol	95-95-4	ND					ND	0.5
Surrogate Standards:	% Recovery							
2-Fluorophenol	367-12-4	**NR**					93	
Phenol-d5	13127-88-3	103					96	
Nitrobenzene-d5	4165-60-0	**NR**					97	
2-Fluorobiphenyl	321-60-8	**NR**					98	
2,4,6-Tribromophenol	118-79-6	113					106	
Terphenyl-d14	1718-51-0	**NR**					109	

Surrogate Control Limits	**Solid**	
2-Fluorophenol	70	130
Phenol-d5	70	130
Nitrobenzene-d5	70	130
2-Fluorobiphenyl	70	130
2,4,6-Tribromophenol	70	130
Terphenyl-d14	70	130

ND = Not Detected < Quantitation Limit
NR = Not Recovered (For Surrogate Standards)
Quantitation Limit = (Reporting Limit) x (Dilution Factor)

Several surrogates were not recovered (NR) due to the high dilution factor of samples that diluted surrogates below quantitation limits.

J = estimated value; compound response was low outside criteria in the continuing calibration standard.

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DEPARTMENT OF TOXIC SUBSTANCES CONTROL

LABORATORY QUALITY CONTROL REPORT -- SEMIVOLATILE ORGANICS BY GC/MS

Authorization No. : 11EC0085 **Priority:** 2

ECL No.: AV01592 - AV01597 Page: 7 of 19

Quality Control Parameter	Laboratory Control Spike/Laboratory Contol Spike Duplicate									
Extraction Date	12/28/2011									
Analysis Date	1/3/2012									
Matrix Type	Solid									
		LCS		LCSD		LCS/LCSD RPD	Control Limits			Quantitation Limits
	Spike Added	Amount Recovered	Recovery	Amount Recovered	Recovery		Recovery		RPD	
Units	mg/Kg	mg/Kg	%	mg/Kg	%	%	%		%	mg/Kg
Phenol	5.00	3.81	76	4.30	86	12.0	70	130	20	0.5
2-Chlorophenol	5.00	3.85	77	4.53	91	16.3	70	130	20	0.5
1,4-Dichlorobenzene	5.00	3.53	71	4.23	85	17.9	70	130	20	0.5
N-Nitroso-di-n-propylamine	5.00	5.20	104	5.17	103	0.5	70	130	20	0.5
1,2,4-Trichlorobenzene	5.00	3.94	79	4.42	88	11.6	70	130	20	0.5
4-Chloro-3-methylphenol	5.00	4.95	99	4.82	96	2.6	70	130	20	0.5
Acenaphthene	5.00	4.99	100	4.88	98	2.2	70	130	20	0.5
2,4-Dinitrotoluene	5.00	5.34	107	5.21	104	2.4	70	130	20	0.5
4-Nitrophenol	5.00	5.64	113	5.50	110	2.5	70	130	20	0.5
Pentachlorophenol	5.00	5.48	110	5.40	108	1.4	70	130	20	0.5
Pyrene	5.00	5.01	100	4.91	98	2.1	70	130	20	0.5
Surrogates:			% Recovery		% Recovery					
2-Fluorophenol			72		86		70	130		
Phenol-d6			79		89		70	130		
Nitrobenzene-d5			81		89		70	130		
2-Fluorobiphenyl			97		96		70	130		
2,4,6-Tribromophenol			111		106		70	130		
Terphenyl-d14			105		103		70	130		

Notes:
NR = Not Recovered (For Surrogate Standard)
ND = Not Detected<Quantitation Limit
Quantitation Limit = (reporting limit) x (dilution factor)

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LABORATORY QUALITY CONTROL REPORT -- SEMIVOLATILE ORGANICS BY GC/MS

Authorization No. : 11EC0085

ECL No.: AV01592 - AV01597

Priority: 2

Quality Control Parameter	MATRIX SPIKE/MATRIX SPIKE DUPLICATE										
Extraction Date	12/28/2011										
Analysis Date	1/4/2012										
Matrix Type	Solid										
	ECL No.	AV01596	Matrix Spike		Matrix Spike Duplicate			MS/MSD	Control Limits		
	Sample Unspiked	Spike Added	Amount Recovered	Recovery	Spike Added	Amount Recovered	Recovery	RPD	Recovery		RPD
Units	mg/Kg	mg/Kg	mg/Kg	%	mg/Kg	mg/Kg	%	%	%		%
Phenol	ND	5.0	ND		5.0	ND			70	130	20
2-Chlorophenol	ND	5.0	4.96	99	5.0	ND			70	130	20
1,4-Dichlorobenzene	ND	5.0	ND		5.0	ND			70	130	20
N-Nitroso-di-n-propylamine	ND	5.0	6.58	**132**	5.0	6.44	129	2.2	70	130	20
1,2,4-Trichlorobenzene	ND	5.0	5.01	100	5.0	ND			70	130	20
4-Chloro-3-methylphenol	ND	5.0	5.20	104	5.0	ND			70	130	20
Acenaphthene	ND	5.0	5.72	114	5.0	5.63	113	1.6	70	130	20
2,4-Dinitrotoluene	ND	5.0	5.11	102	5.0	ND			70	130	20
4-Nitrophenol	ND	5.0	ND		5.0	ND			70	130	20
Pentachlorophenol	ND	5.0	ND		5.0	ND			70	130	20
Pyrene	ND	5.0	5.35	107	5.0	5.24	105	2.1	70	130	20
Surrogates:				% Recovery			% Recovery				
2-Fluorophenol				89			91		70	130	
Phenol-d6				100			97		70	130	
Nitrobenzene-d5				103			**NR**		70	130	
2-Fluorobiphenyl				111			108		70	130	
2,4,6-Tribromophenol				118			108		70	130	
Terphenyl-d14				111			109		70	130	

N-Nitroso-di-n-propylamine had high recovery for matrix spike, but % RPD for MS/MSD was within criteria and compound was not detected in samples.
Nitrobenzene-d5 surrogate in MSD was not recovered (NR) due to high dilution factor that diluted the compound below quantitation limit.
Several compounds were not detected (ND) because of the high dilution factor of samples that diluted compounds below quantitation limits.

NR = Not Recovered (For Surrogate Standard)
ND = Not Detected<Quantitation Limit

Quantitation Limit = (Reporting limit) x (dilution factor)

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LABORATORY QUALITY CONTROL REPORT -- SEMIVOLATILE ORGANICS BY GC/MS

Authorization No. : 11EC0085 **Priority:** 2

ECL No.: AV01592 - AV01597 Page: 9 of 19

Quality Control Parameter	Sample Replicate Analysis				
Extraction Date	12/28/2011				
Analysis Date	1/3/2012				
Matrix	Solid				
ECL No:	AV01592				
	Sample Result	Replicate Result	RPD	RPD Control Limits	Quantitation Limits
Units	mg/Kg	mg/Kg	%	%	mg/Kg
Bis(2-chloroethyl)ether	ND	ND		20	2.0
Phenol	5.05	4.65	8.3	20	2.0
2-Chlorophenol	ND	ND		20	2.0
1,3-Dichlorobenzene	ND	ND		20	2.0
1,4-Dichlorobenzene	ND	ND		20	2.0
Benzyl alcohol	ND	ND		20	2.0
1,2-Dichlorobenzene	ND	ND		20	2.0
2-Methylphenol	ND	ND		20	2.0
Bis(2-chloroisopropyl)ether	ND	ND		20	2.0
4-Methylphenol	ND	ND		20	2.0
Hexachloroethane	ND	ND		20	2.0
N-nitroso-di-n-propylamine	ND	ND		20	2.0
Nitrobenzene	ND	ND		20	2.0
Isophorone	ND	ND		20	2.0
2-Nitrophenol	ND	ND		20	2.0
2,4-Dimethylphenol	ND	ND		20	2.0
bis(2-chloroethoxy)methane	ND	ND		20	2.0
2,4-Dichlorophenol	ND	ND		20	2.0
1,2,4-Trichlorobenzene	ND	ND		20	2.0
Naphthalene	ND	ND		20	2.0
4-Chloroaniline	ND	ND		20	2.0
Hexachlorobutadiene	ND	ND		20	2.0
4-Chloro-3-methylphenol	ND	ND		20	2.0
2-Methylnaphthalene	ND	ND		20	2.0
Hexachlorocyclopentadiene	ND	ND		20	2.0
2,4,6-Trichlorophenol	ND	ND		20	2.0
2,4,5-Trichlorophenol	ND	ND		20	2.0
2-Chloronaphthalene	ND	ND		20	2.0
2-Nitroanaline	ND	ND		20	2.0
Acenaphthylene	ND	ND		20	2.0
3-Nitroanaline	ND	ND		20	2.0
Dimethylphthalate	ND	ND		20	2.0
2,6-Dinitrotoluene	ND	ND		20	2.0
Acenaphthene	ND	ND		20	2.0
2,4-Dinitrophenol	ND J	ND J		20	8.0
2,4-Dinitrotoluene	ND	ND		20	2.0
Dibenzofuran	ND	ND		20	2.0
4-Nitroanaline	ND	ND		20	2.0
4-Nitrophenol	ND	ND		20	2.0
Fluorene	ND	ND		20	2.0
4-Chlorophenyl-phenylether	ND	ND		20	2.0
Diethylphthalate	ND	ND		20	2.0

Notes:

J = 2,4-Dinitrophenol was outside criteria in the initial calibration and low in the continuing calibrations. Results are estimated.

ND = Not Detected < Quantitation Limit

Quantitation Limit = (Reporting Limit) x (dilution factor)

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LABORATORY QUALITY CONTROL REPORT -- SEMIVOLATILE ORGANICS BY GC/MS

Authorization No. : 11EC0085 **Priority:** 2

ECL No.: AV01592 - AV01597 Page: 10 of 19

Quality Control Parameter	Sample Replicate Analysis				
Extraction Date	12/28/2011				
Analysis Date	1/3/2012				
Matrix	Solid				
ECL No:	AV01592		RPD	RPD Control Limits	Quantitation Limits
	Sample Results	Replicate Results			
Units	mg/Kg	mg/Kg	%	%	mg/Kg
4,6-Dinitro-2-methylphenol	ND J	ND J		20	4.0
n-Nitrosodiphenylamine	ND	ND		20	2.0
4-Bromophenyl-phenylether	ND	ND		20	2.0
Hexachlorobenzene	ND	ND		20	2.0
Pentachlorophenol	ND	ND		20	2.0
Phenanthrene	ND	ND		20	2.0
Anthracene	ND	ND		20	2.0
Carbazole	ND	ND		20	2.0
Di-n-butyl phthalate	ND	ND		20	2.0
Fluoranthene	ND	ND		20	2.0
Pyrene	ND	ND		20	2.0
Butylbenzyl phthalate	ND	ND		20	2.0
3,3'-Dichlorobenzidine	ND	ND		20	2.0
Benzo(a)anthracene	ND	ND		20	2.0
Chrysene	ND	ND		20	2.0
bis(2-ethylhexyl) phthalate	ND	ND		20	2.0
Di-n-octyl phthalate	ND	ND		20	2.0
Benzo(b)fluoranthene	ND	ND		20	2.0
Benzo(k)fluoranthene	ND	ND		20	2.0
Benzo(a)pyrene	ND	ND		20	2.0
Indeno(1,2,3-cd)pyrene	ND	ND		20	2.0
Dibenz(a,h)anthracene	ND	ND		20	2.0
Benzo(g,h,i)perylene	ND	ND		20	2.0

Surrogates:	% Recovery	% Recovery	Control Limits	
2-Fluorophenol	73	73	70	130
Phenol-d6	84	84	70	130
Nitrobenzene-d5	82	83	70	130
2-Fluorobiphenyl	98	96	70	130
2,4,6-Tribromophenol	95	96	70	130
Terphenyl-d14	107	106	70	130

Notes:
J = estimated value; compound response was low outside criteria in the continuing calibration standard.
ND = Not Detected < Quantitation Limit
Quantitation Limit = lowest calibration standard x dilution factor
NR = Not Recovered (For Surrogate Standard)
NC = Not Calculated

State of California
California Environmental Protection

Department of Toxic Substances Control
Environmental Chemistry Laboratory

AUTHORIZATION REQUEST FORM (ARF)

SUPPLEMENTAL ☐
(Check if Supplemental Requested)

PART A : (By Requestor - PLEASE PRINT)

*Unit chief's signature required: (for Rush or TAT Level = 1)

Turnaround Time (TAT) : *Rush ☐ *Level 1 ☐ 2 ☑ 3 ☐

Requestor's Name	Greg Neal	Email	gneal @dtsc.ca.gov	Phone (714) 484-5455
Region	04--Cypress	Unit	BERP-Engineering & Geology	Fax (714) 484-5411
Back-up Requestor	Alfredo Zanoria			Phone (714) 484-5422
Site Name	Western Environmental Inc - Mecca			AREA CODE

PART B: Analytical Requests (By Requestor) (Lab uses default methods listed below. Please specify all other requests.)

Inorganic Analysis	Number of Samples/Type Solid	Liquid	Water	Other
% Dry Solids (ECL730-S)				
Acidity (305-1)				
Alkalinity (310-1)				
Anions by IC (9056)				
Chromium VI(Cr^{6+}) by Colorimetric (7196A)				
Chromium VI(Cr^{6+}) in Water by IC (7199)				
Cyanides for Wastes,Leachates (9010B)	10 - TO ATL			
Hardness (130-2)				
Mercury(Hg) in (Semi)Solid Waste (7471A)	10			
Mercury(Hg) in Liquid Waste (7470A)				
Metals Screening by XRF				
Metals Scan (6010B, for As,Ba,Cu,Pb, etc)				
Metals Scan (for Drinking water, 6020A)				
OrganoLead in Waste (ECL938-M)				
Particle Size (ECL740-S)				
Perchlorate for Soil,Sludge (ECL955-M)				
Perchlorate for Water (314-0)				
pH (9040B, 9045C)				
Total Dissolved Solids (160-1)				
WET(ECL910-S) ☐ Only if necessary ☐ Do it regardless				
(others, type in)				

Organic Analysis	Number of Samples/Type Solid	Liquid	Water	Other
GRO (Gasoline, 8015B)				
DRO(Diesel) only (ECL816-M)				
Motor Oil only (ECL816-M)				
DRO(Diesel) & Motor Oil (ECL816-M)				
EthyleneGlycol (ECL772-M)				
PBDEs (ECL750-M)				
PCBs (8082)				
Pesticides - Chlorinated (8081A)				
Pesticides - Organophosphate (8141A)	10 - TO ATL			
1,4-Dioxane (ECL830-S)				
GC/MS Semivolatiles (8270C)	10			
Volatiles (8260B)				
HPLC Carbonyl Compounds (8315A)				
Explosives (8330)				
PAHs (8310)	10			
Dioxins/Furans by HRGC/HRMS (ECL880-M)	10			
Flash Point (1020A)				
n-Hexane Extractables/TPH (1664)				
TXO-Total Halogens in Oil (ECL792-S)				
(others, type in)				
(others, type in)				

TCLP Analysis**			Solid	Liquid	Water	Other
Metals	☐ Only if necessary	☐ Do it regardless				
Mercury	☑ Only if necessary	☐ Do it regardless	10			
Volatiles	☐ Only if necessary	☐ Do it regardless				
Semivolatiles	☐ Only if necessary	☐ Do it regardless				
(others, type in)						

Other Analysis	Solid	Liquid	Water	Other
Fish Bioassay (Title 22)				
Congener PCBs (ECL-CG-PCB)				
Congener PBDEs (ECL-CG-PBDE)				
(others,type in)				
(others, type in)				

Analysis Objective: Site Characterization

Special Instructions or Comments (For Example: Detection Limit, Sample Preparation, Extraction..., etc.):

Lowest achieveable DLs. Dioxins/furans by EPA 8290 if DL is lower than ECL method. Cyanide by 9010 if DL is lower than 9014.

Expected Sample Arrival Date: 12/16/11 (mm/dd/yy)

PART C : (By SMO - ECL)

Authorization Number (AN): 11EC0085-~~BERP~~ EERP

ARF's Revision No.
Initials: Date:

Lab to Receive Sample(s):

Environmental Chemistry Lab
700 Heinz Ave. Suite 150
Berkeley, CA 94710
Attn: Lloyd Williams (510) 540-2189

ARF's Revision No.
Initials: Date:

Sample Management Officer (SMO): LW

☐ Check box if cancelled
Initials: Date:

Today's Date 12/09/11 (mm/dd/yy)

Expiration Date 12/26/11 (mm/dd/yy)

If Sample(s) Directed to Contract Lab, Please Specify:

Reason:

ECL Personnel Confirmed:

ECL Contract Lab Manager Notification (for Rush or TAT Level =1):

Turnaround Time (TAT): * Rush for public health and safety or emergency, *Level 1 = 15 days, 2 = 30 days, 3 = 45 days.
**TCLP If time permits and sample matrix type is appropriate, lab may analyze or screen the sample(s) first to determine if TCLP is needed.
Reference: ECL User's Manual.

State of California
California Environmental Protection Agency

Department of Toxic Substances Control
Environmental Chemistry Laboratory

ENVIRONMENTAL CHEMISTRY LABORATORY SAMPLE ANALYSIS REQUEST

1. Authorization Number: 11EC0085

ECL No.: To

2. Page 1 of 1

3. Requestor: (to Receive Results) a. Name: Greg Neal
b. Address: 5796 Corporate Avenue (street number)
Cypress Ca 90630 (city, state, zip)
c. Phone: 7144845455 (area code first) d. Fax: 7144845411 (area code first)
e. Email: gneal@dtsc.ca.gov @dtsc.ca.gov

4. Project Name (if applicable): WEI Mecca

5. TAT Level: 2

6. Sampling Information: a. Date/Time Sampled: 12/14-12/16/11 (mm/dd/yy) (#:## AM/PM)
b. Location: EPA ID No.
Site: WEI Mecca
Address: 62-150 Gene Welmas Ave (street number)
Mecca Ca (city, state, zip)
GPS-Lat: GPS-Long:
GPS-Alt: GPS-Depth:

7. Codes (select from drop down list or fill in if applicable)
a. Unit
b. INDEX
c. PCA 36195
d. MPC 962
e. SITE 551115-48
f. County Riverside

8. Samples:

a. ID	b. Collector's No.	c. ECL No.	d. Matrix	e. Container Size	f. Number of containers	g. Preservative / Field Information
1	WEI-GL03-NE	AV01592	Soil	3-8oz 2-4oz 3-VOA	8 12/14 10:04	ICE Methanol Sodium Bisulfate
2	WEI-GL07-NW	AV01593	Soil	3-8oz 4-4oz 3-VOA	12/14 1324 10	ICE Methanol Sodium Bisulfate
~~3~~	~~WEI-GL07-NW BKG~~		~~Soil~~	~~3-8oz 2-4oz 3-VOA~~	~~8~~	~~ICE Methanol Sodium Bisulfate~~
4	WEI-GL16-SW	AV01594	Soil	3-8oz 2-4oz 3 VOA	8 12/15 9:04	ICE Methanol Sodium Bisulfate
5	WEI-GL20-W	AV01595	Soil	3-8oz 2-4oz 3 VOA	8 12/15 3:24	ICE Methanol Sodium Bisulfate
6	WEI-UT03	AV01596	Soil	3-8oz 2-4oz 3 VOA	8 12/14 9:28	ICE Methanol Sodium Bisulfate
7	WEI-UT06	AV01597	Soil	3-8oz 2-4oz 3 VOA	8 12/14 11:07	ICE Methanol Sodium Bisulfate
8	WEI-Blank		liquid	3 VOA	3	Methanol Sodium Bisulfate
9						

9. Analysis Requested: Enter sample IDs and sample ID ranges separated by commas: For example, 1-3, 5-7, 9

a. Inorganic Analysis	Sample(s) ID	b. Organic Analysis	Sample(s) ID
· Cyanide	1,2,4,5,6,7,~~8~~	· Chlorinated Pesticides	1,2,4,5,6,7
· Mercury	1,2,4,5,6,7,	· Organo ~~Chlorine~~ phosphate Pesticides	1,2,4,5,6,7
· Metals	1,2,4,5,6,7	· VOCs	1,2,~~3~~,4,5,6,7,8
· pH	1,2,4,5,6,7	· PCBs	1,2,4,5,6,7
· Hexavalent Chromium	1,2,4,5,6,7	· SVOCs	1,2,4,5,6,7
		· PAHs	1,2,4,5,6,7
Other Metals:		· Dioxins/furans	1,2,4,5,6,7

c. TCLP Analysis		d. Other Analysis
Metals only if necessary	1,2,4,5,6,7	
Mercury only if necessary	1,2,4,5,6,7	

e. Comments for Multiphasic Samples/Analysis Priority:

10. Analysis Objective: Human Health Risk

11. Detection Limit Requirements: (Check ECL User's Manual to assure default DL is sufficient.)
Lowest Achievable

12. Supplemental Requests: Enter sample IDs as described in Item 9

Desired Analysis	Sample(s) ID

Initials
Date

13. ECL Lab Remarks: EC

14. Chain of Custody:

	Name	Title	Signature	Inclusive Dates of Custody		
a.	Greg Neal	Geologist	Greg Neal	12/14/11	to	12/16/11
b.	Alfredo Zuhoria	Geologist	[illegible]	12/16/11	to	12/19/11
c.	Greg Neal	Geologist	Greg Neal	12/19/11	to	12/19/11
d.	Barbara Bush	Lab Tech	Barbara Bush	12/19/11	to	12/19/11
e.	Floyd Williams	Lab Asst	Floyd Williams	12/20/11	to	
f.					to	
g.					to	

FIELD

ECL

LAB

COC

Department of Toxic Substances Control
Environmental Chemistry Laboratory
700 Heinz Avenue, Suite 150, Berkeley, CA 94710
Phone: (510) 540-3610 Fax: (510) 540-3615

ECL SAMPLE RECEIPT

Printed on: 12/20/2011

Authorization No: 11EC0085_EERP

Collector: Greg Neal

Date Collected: 12/14/2011

Date Lab Received: 12/20/2011

Sampling Site: WEI MECCA
62-150 Gene Welmos Ave.

ECL No.	Collector's No.	Sample Matrix	Container		Approximate Amount Rec' D	Custody Seals	Seal Location	Sample Condition	Action Taken
			Type	Size					
AV01592	WEI-GL03-NE	Soil	glass	2(1-8oz, 1-4oz glass jar)	4oz-176.2; 8oz-306.2	Absent		Acceptable	
AV01593	WEI-GL07-NW	Soil	glass	4(2-8oz, 2-4oz glass jar)	4oz-131.4; 8oz-232.7	Absent		Acceptable	
AV01594	WEI-GL16-SW	Soil	glass	2(1-8oz, 1-4oz glass jar)	4oz-179.6; 8oz-320.2	Absent		Acceptable	
AV01595	WEI-GL20-W	Soil	glass	2(1-8oz, 1-4oz glass jar)	4oz-151.6; 8oz-339.7	Absent		Acceptable	
AV01596	WEI-UT03	Soil	glass	2(1-8oz, 1-4oz glass jar)	4oz-164.7; 8oz-307.4	Absent		Acceptable	
AV01597	WEI-UT06	Soil	glass	2(1-8oz, 1-4oz glass jar)	4oz-185.6; 8oz-338.4	Absent		Acceptable	

Comments:

Sample(s) processed by: Lloyd Williams Signature: [signature] Date: 12/20/11

Supervisor's approval (if any action taken): Signature: _____ Date: _____

FedEx Express **NEW Package US Airbill**

FedEx Tracking Number 8768 1923 1435

0200 Form ID No.

FedEx Retrieval Copy

1 From

Date 12-19-11 Sender's FedEx Account Number 3203-0960-3

Sender's Name B BUSH Phone 213 482-9244

Company DTSC - ECL-LA

Address 1449 W Temple Dept./Floor/Suite/Room

City Los Angeles State CA ZIP 90026

2 Your Internal Billing Reference

3 To

Recipient's Name Sample Rec'g Phone

Company DTSC ECL Ste 150

Address 700 Heinz Ave Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

01 ☐ HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

31 ☐ HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City Berkeley State CA ZIP 94710

716

8768 1923 1435

4 Express Package Service * To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs. For packages over 150 lbs., use the new FedEx Express Freight US Airbill.

Next Business Day

06 ☐ FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

01 ☒ FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

05 ☐ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available

2 or 3 Business Days

49 ☐ NEW FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available

03 ☐ FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

20 ☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available

5 Packaging * Declared value limit $500.

06 ☐ FedEx Envelope* 02 ☐ FedEx Pak* 03 ☐ FedEx Box 04 ☐ FedEx Tube 01 ☒ Other

6 Special Handling and Delivery Signature Options

03 ☐ **SATURDAY DELIVERY**

☒ No Signature Required — Package may be left without obtaining a signature for delivery

10 ☐ Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*

34 ☐ Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods?

One box must be checked.

☒ No 04 ☐ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required. 06 ☐ Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

☐ Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No. ☐

1 ☒ Sender Acct. No. in Section 1 will be billed. 2 ☐ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check

[redacted]

Total Packages 1 Total Weight 23 lbs. Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

612

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TUE - 20 DEC A1
PRIORITY OVERNIGHT

81 JEMA

94710
CA-US
OAK

Emp# 488149 19DEC11 JGXA 50FC1/859F/F5F4

Environmental Chemistry Laboratory
700 Heinz, Suite 150, Berkeley CA 94710
Telephone: (510)540-2955 FAX: (510)540-2305

Sample Receipt Checklist

Authorization No: 11EC0085 E+ERP

ECL No: AU01592-AU01597 Collector's No: see SAR

Sample Criteria	Yes Acceptable	No
1. Samples received in cooler/ice chest?	✓	
2. Cooler/ice chest packed with ice?	✓	
3. Cooler/ice chest temperature within 4°C ± 2°C? 4.6 °C	✓	
4. Sample condition acceptable (intact and not damaged)?	✓	
5. Custody seals present?		✓
6. If Yes, Custody seals intact?		
7. Samples in proper containers? (See Table 1 & 2)	✓	
8. VOA aqueous samples in 40 ml VOA vials and no headspace?		
9. Sufficient volume/amount for analyses? (See Table 1&2)	✓	
10. ~~Sample Analysis Request Form SAR received?~~	✓	
11. SAR complete?	✓	
12. No. of samples in SAR and the no. of samples in APF agree within 20%?	✓	
13. Sample labels agree with SAR? Some labels smeared	✓	
14. Sample labels legible and numbered?	✓	
15. Chain of Custody complete? Name printed, signed and dated?	✓	
16. Samples properly preserved?	✓	
17. If received by Fed EX, air bill/packing slip signed, dated and made copy for file?		

If No, check for corrective action taken.

_____ Sample analysis on hold for further information _____ Inform collector of the problem

✓ Samples analyzed as received _____ Corrected

_____ Other (specify) _____

Received and Completed by: Lloyd Williams

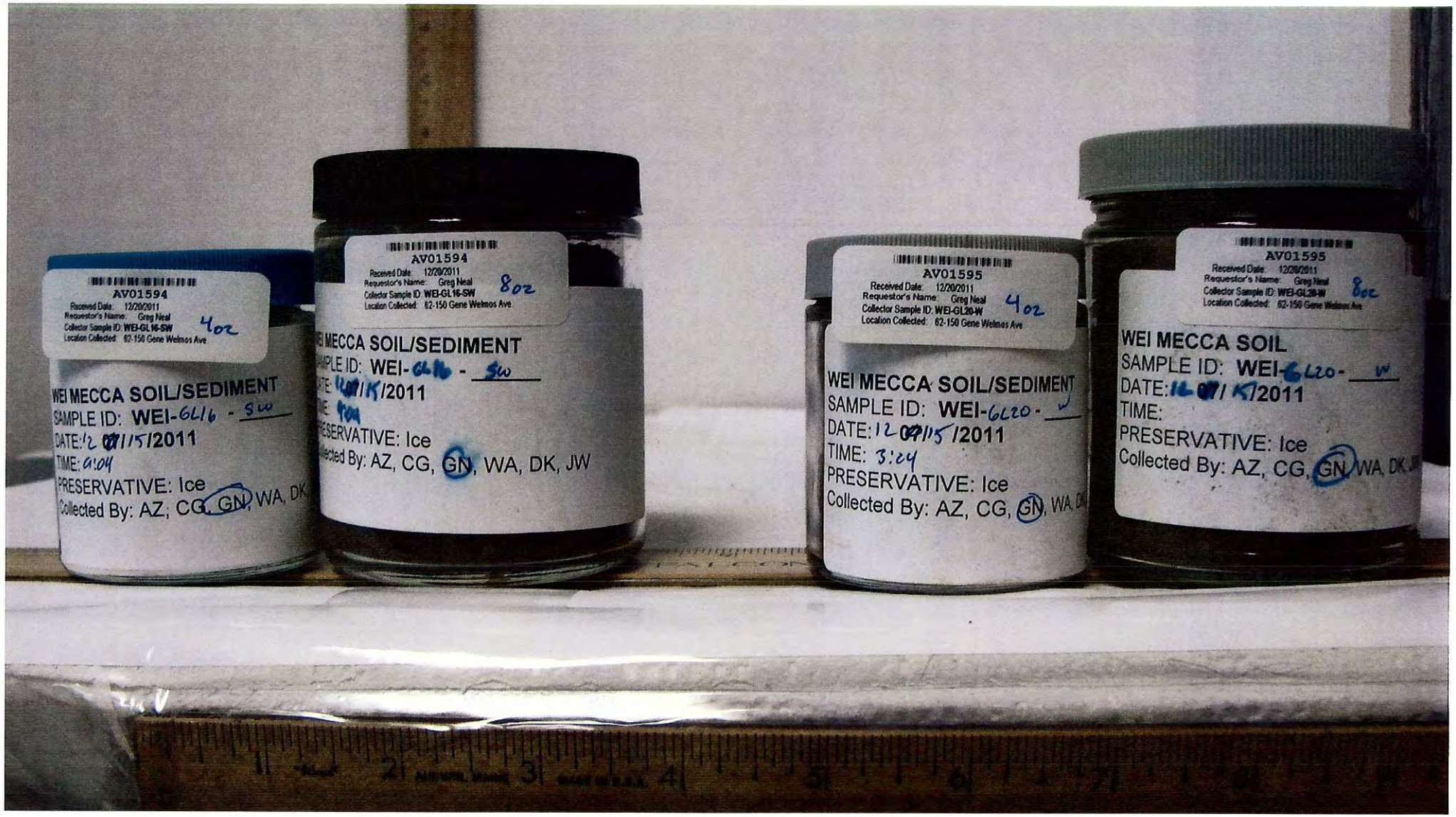
Signature: [signature] Date: 12/20/11

Supervisor's Approval: _____ Date: _____

(If any correction taken)

AV01592
Received Date: 12/20/2011
Requestor's Name: Greg Neal
Collector Sample ID: WEI-GL03-NE
Location Collected: 62-150 Gene Welmos Ave.
4oz
WEI MECCA SOIL
SAMPLE ID: WEI-GL03 - NE
DATE: 12/14/2011
TIME: 10:04
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-GL03 - NE
DATE: 12/14/2011
TIME: 10:04
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK, JW
AV01592
Received Date: 12/20/2011
Requestor's Name: Greg Neal
Collector Sample ID: WEI-GL03-NE
Location Collected: 62-150 Gene Welmos Ave.
8oz
AV01593
Received Date: 12/20/2011
Requestor's Name: Greg Neal
Collector Sample ID: WEI-GL07-NW
Location Collected: 62-150 Gene Welmos Ave.
4oz
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-GL07 - NW
DATE: 12/14/2011
TIME: 1324
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK
AV01593
Received Date: 12/20/2011
Requestor's Name: Greg Neal
Collector Sample ID: WEI-GL07-NW
Location Collected: 62-150 Gene Welmos Ave.
8oz
WEI MECCA SOIL
SAMPLE ID: WEI-GL07 - NW
DATE: 12/14/2011
TIME: 1324
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK

AV01593
Received Date: 12/20/2011
Requestor's Name: Greg Neal
Collector Sample ID: WEI-GL07-NW
Location Collected: 62-150 Gene Welmos Ave.
Dup
4oz
WEI MECCA SOIL
SAMPLE ID: WEI-GL07 - NW
DATE: 12 /14/2011
TIME: 13:00
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK
AV01593
Received Date: 12/20/2011
Requestor's Name: Greg Neal
Collector Sample ID: WEI-GL07-NW
Location Collected: 62-150 Gene Welmos Ave.
Dup
8oz
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-GL07 -
DATE: 12/14/2011
TIME:
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK, JW


AV01594
Received Date: 12/20/2011
Requestor's Name: Greg Neal
Collector Sample ID: WEI-GL16-SW
Location Collected: 62-150 Gene Welmos Ave
4oz
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-GL16 - SW
DATE: 12/15/2011
TIME: 9:04
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK
AV01594
Received Date: 12/20/2011
Requestor's Name: Greg Neal
Collector Sample ID: WEI-GL16-SW
Location Collected: 62-150 Gene Welmos Ave
8oz
MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-GL16 - SW
/2011
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK, JW
AV01595
Received Date: 12/20/2011
Requestor's Name: Greg Neal
Collector Sample ID: WEI-GL20-W
Location Collected: 62-150 Gene Welmos Ave
4oz
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-GL20 - W
DATE: 12/15/2011
TIME: 3:24
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK
AV01595
Received Date: 12/20/2011
Requestor's Name: Greg Neal
Collector Sample ID: WEI-GL20-W
Location Collected: 62-150 Gene Welmos Ave
8oz
WEI MECCA SOIL
SAMPLE ID: WEI-GL20 - W
DATE: 12/15/2011
TIME:
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK

AV01596
Received Date: 12/20/2011
Requestor's Name: Greg Neal
Collector Sample ID: WEI-UT03
Location Collected: 62-150 Gene Welmos Ave.
4oz
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-UT03 - ____
DATE: 12/16/2011
TIME: 9:23
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA
AV01596
Received Date: 12/20/2011
Requestor's Name: Greg Neal
Collector Sample ID: WEI-UT03
Location Collected: 62-150 Gene Welmos Ave.
8oz
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-UT03 - ____
DATE: 12/16/2011
TIME: 9:23
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK, JW
AV01597
Received Date: 12/20/2011
Requestor's Name: Greg Neal
Collector Sample ID: WEI-UT06
Location Collected: 62-150 Gene Welmos Ave.
4oz
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-UT06 - ____
DATE: 12/16/2011
TIME: 11:07
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA
AV01597
Received Date: 12/20/2011
Requestor's Name: Greg Neal
Collector Sample ID: WEI-UT06
Location Collected: 62-150 Gene Welmos Ave.
8oz
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-UT06 - ____
DATE: 12/16/2011
TIME: 11:07
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA

CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY
700 HEINZ AVE SUITE 100, BERKELEY, 94710
Tel. 510-540-3003 FAX 510-540-2305

DIOXIN/FURAN REPORT

Sample Nos:	AV01592, AV01593, AV01593D
Collector Nos:	WEI-GL03-NE, WEI-GL07-NW, WEI-GL07-NW
Sample type	Soil
Sample Location	Western Environmental Inc; Mecca
Procedure	EPA-1613
Run:	
Instrument	MAT-95
Blank File	
GC Parameter File:	1613_60mdb5_03b
MS Parameter File:	1613_pfk_60mdioxin2_a
Autosampler File:	a200s_b
Comments:	

SAMPLE PREP:	Roshni Sarala	Signature: Roshni	Date: 03/07/12
GC/MS ANALYST:	Joginder Dhaliwal	Signature: J Dhaliwal	Date: 03/07/12
REVIEWING ANALYST:	Reber Brown	Signature: Reber Brown	Date: 03/08/12
SUPERVISOR:	June-Soo Park	Signature: June-Soo Park	Date: 3-27-12

CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY

Tel. 510-540-3003 Fax# 510-540-2305

DIOXIN/FURAN REPORT

collector's name: Greg Neal
collector's phone: 714-484-5455 Report Date: 2/2/2012
sampling site: Western Environment

ECL: AV01592, AV01593, AV01593D

HML-NUMBER :	AV01592		AV01593		AV01593D					
COLLECTOR'S NUMBER	WEI-GL03-NE		WEI-GL07-NW		WEI-GL07-NW					
MATRIX	soil		soil		soil					
MOISTURE CONTENT										
FAT %										
UNITS	pg/g (dry wt)		pg/g (dry wt)		pg/g (dry wt)		pg/g (dry wt)		pg/g (dry wt)	
2,3,7,8-Cl4DD	0.099	ND	0.64	I	0.11	ND				
1,2,3,7,8-Cl5DD	0.165	ND	1.49	D	1.49	D				
1,2,3,4,7,8-Cl6DD	0.155	ND	0.19	ND	3.23					
1,2,3,6,7,8-Cl6DD	4.11		4.72		4.19					
1,2,3,7,8,9-Cl6DD	3.33		3.93		2.46					
1,2,3,4,6,7,8-Cl7DD	90.5		111		67.1					
1,2,3,4,6,7,8,9-Cl8DD	907		1402		732					
2,3,7,8-Cl4DF	4.35		3.09		2.86					
1,2,3,7,8-Cl5DF	1.49		1.53		1.74					
2,3,4,7,8-Cl5DF	3.99	D	4.61	D	3.12	D				
1,2,3,4,7,8-Cl6DF	4.77		8.47		4.90					
1,2,3,6,7,8-Cl6DF	2.37		3.56		2.09					
1,2,3,7,8,9-Cl6DF	1.66	B	1.73	B	1.83	B				
2,3,4,6,7,8-Cl6DF	3.45	B	4.21	D	3.87	D				
1,2,3,4,6,7,8-Cl7DF	23.4		34.1		21.1					
1,2,3,4,7,8,9-Cl7DF	2.96	B	3.5	B	3.99	D				
1,2,3,4,6,7,8,9-Cl8DF	48.6		108		45.0					
PCB-77										
PCB-81										
PCB-126										
PCB-169										
Cl4DD	6.50		3.97		3.37					
Cl5DD	11.6		12.5		11.7					
Cl6DD	60.5		40.7		27.8					
Cl7DD	180		217		133					
Cl4DF	84.6		47.7		48.4					
Cl5DF	46.6		37.7		49.0					
Cl6DF	44.8		54.7		41.9					
Cl7DF	113.4		58.2		52.6					
13C-2,3,7,8-Cl4DD %REC	82.5		85.3		85.1					
13C-1,2,3,7,8-Cl5DD %REC	77.5		94.3		92.2					
13C-1,2,3,4,7,8-Cl6DD %REC	89.3		83.6		91.1					
13C-1,2,3,6,7,8-Cl6DD %REC	81.6		77.5		78.5					
13C-1,2,3,4,6,7,8-Cl7DD %REC	82.1		103		98.2					
13C-1,2,3,4,6,7,8,9-Cl8DD %REC	54.7		83.3		80.0					
13C-2,3,7,8-Cl4DF %REC	72.2		77.5		77.3					
13C-1,2,3,7,8-Cl5DF %REC	75.6		83.3		78.6					
13C-2,3,4,7,8-Cl5DF %REC	70.8		85.6		83.4					
13C-1,2,3,4,7,8-Cl6DF %REC	73.6		81.5		76.3					
13C-1,2,3,6,7,8-Cl6DF %REC	77.8		88.1		84.4					
13C-1,2,3,7,8,9-Cl6DF %REC	76.2		84.9		80.0					
13C-2,3,4,6,7,8-Cl6DF %REC	76.1		87.9		81.7					
13C-1,2,3,4,6,7,8-Cl7DF %REC	68.0		82.9		77.7					
13C-1,2,3,4,7,8,9-Cl7DF %REC	74.8		96.7		91.3					
13C-PCB-77 %REC										
13C-PCB-126 %REC										
13C-PCB-169 %REC										
i-TEQ(H) PCB-TEQ(4 PCBs) - Soil/Ash	5.88		9.13		6.73					

NA=Not determined N/A=Not Applicable ND=Less than MDL D=Less than QL I=Interference B=Upper Limit

PATH

CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY

Tel. 510-540-3003 Fax# 510-540-2305

DIOXIN/FURAN REPORT

collector's name: Greg Neal **QA/QC** ECL: AV01592, AV01593, AV01593D
collector's phone: 714-484-5455 Report Date: 2/2/2012
sampling site: Western Environmental Inc; Mec

HML-NUMBER :	Method Blank					
COLLECTOR'S NUMBER						
MATRIX	solvent					
MOISTURE CONTENT						
FAT %						
UNITS	pg					
2,3,7,8-Cl4DD	0.328	ND				
1,2,3,7,8-Cl5DD	0.566	ND				
1,2,3,4,7,8-Cl6DD	0.181	ND				
1,2,3,6,7,8-Cl6DD	0.201	ND				
1,2,3,7,8,9-Cl6DD	0.201	ND				
1,2,3,4,6,7,8-Cl7DD	0.337	ND				
1,2,3,4,6,7,8,9-Cl8DD	0.563	ND				
2,3,7,8-Cl4DF	0.285	ND				
1,2,3,7,8-Cl5DF	0.192	ND				
2,3,4,7,8-Cl5DF	1.26					
1,2,3,4,7,8-Cl6DF	0.27	ND				
1,2,3,6,7,8-Cl6DF	0.25	ND				
1,2,3,7,8,9-Cl6DF	1.71					
2,3,4,6,7,8-Cl6DF	2.46					
1,2,3,4,6,7,8-Cl7DF	2.90					
1,2,3,4,7,8,9-Cl7DF	2.32					
1,2,3,4,6,7,8,9-Cl8DF	5.22					
PCB-77						
PCB-81						
PCB-126						
PCB-169						
Cl4DD						
Cl5DD						
Cl6DD						
Cl7DD						
Cl4DF						
Cl5DF						
Cl6DF						
Cl7DF						
13C-2,3,7,8-Cl4DD %REC	83.9					
13C-1,2,3,7,8-Cl5DD %REC	80.1					
13C-1,2,3,4,7,8-Cl6DD %REC	86.6					
13C-1,2,3,6,7,8-Cl6DD %REC	78.5					
13C-1,2,3,4,6,7,8-Cl7DD %REC	88.8					
13C-1,2,3,4,6,7,8,9-Cl8DD %REC	73.8					
13C-2,3,7,8-Cl4DF %REC	74.2					
13C-1,2,3,7,8-Cl5DF %REC	73.2					
13C-2,3,4,7,8-Cl5DF %REC	73.9					
13C-1,2,3,4,7,8-Cl6DF %REC	81.5					
13C-1,2,3,6,7,8-Cl6DF %REC	87.4					
13C-1,2,3,7,8,9-Cl6DF %REC	81.3					
13C-2,3,4,6,7,8-Cl6DF %REC	88.6					
13C-1,2,3,4,6,7,8-Cl7DF %REC	81.1					
13C-1,2,3,4,7,8,9-Cl7DF %REC	85.7					
13C-PCB-77 %REC						
13C-PCB-126 %REC						
13C-PCB-169 %REC						
i-TEQ(H) PCB-TEQ(4 PCBs)	1.620					

NA=Not determined N/A=Not Applicable ND=Less than MDL D=Less than QL I=Interference B=Upper Limit

PATH

CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY

Tel. 510-540-3003 Fax# 510-540-2305

DIOXIN/FURAN REPORT

collector's name: Greg Neal
collector's phone: 714-484-5455 Report Date: 2/2/2012
sampling site: Western Environment

ECL: AV01592, AV01593, AV01593D

HML-NUMBER :	AV01592		AV01593		AV01593D					
COLLECTOR'S NUMBER	WEI-GL03-NE		WEI-GL07-NW		WEI-GL07-NW					
MATRIX	soil		soil		soil					
MOISTURE CONTENT										
WEIGHT	2.00		2.00		2.00					
UNITS	Ratio		Ratio		Ratio					
2,3,7,8-Cl4DD	0.60	ND	3.87	I	0.66	ND				
1,2,3,7,8-Cl5DD	0.58	ND	5.26	D	5.26	D				
1,2,3,4,7,8-Cl6DD	1.72	ND	2.12	ND	35.8					
1,2,3,6,7,8-Cl6DD	40.9		46.9		41.7					
1,2,3,7,8,9-Cl6DD	33.1		39.1		24.5					
1,2,3,4,6,7,8-Cl7DD	537		661		398					
1,2,3,4,6,7,8,9-Cl8DD	3222		4983		2599					
2,3,7,8-Cl4DF	30.6		21.7		20.1					
1,2,3,7,8-Cl5DF	15.5		15.9		18.1					
2,3,4,7,8-Cl5DF	6.36	D	7.35	D	4.96	D				
1,2,3,4,7,8-Cl6DF	35.1		62.4		36.1					
1,2,3,6,7,8-Cl6DF	19.1		28.7		16.9					
1,2,3,7,8,9-Cl6DF	1.94	B	2.03	B	2.14	B				
2,3,4,6,7,8-Cl6DF	2.81	B	3.43	D	3.15	D				
1,2,3,4,6,7,8-Cl7DF	16.1		23.5		14.6					
1,2,3,4,7,8,9-Cl7DF	2.54	B	2.98	B	3.43	D				
1,2,3,4,6,7,8,9-Cl8DF	18.6		41.3		17.2					
PCB-77										
PCB-81										
PCB-126										
PCB-169										
Cl4DD										
Cl5DD										
Cl6DD										
Cl7DD										
Cl4DF										
Cl5DF										
Cl6DF										
Cl7DF										
13C-2,3,7,8-Cl4DD %REC										
13C-1,2,3,7,8-Cl5DD %REC										
13C-1,2,3,4,7,8-Cl6DD %REC										
13C-1,2,3,6,7,8-Cl6DD %REC										
13C-1,2,3,4,6,7,8-Cl7DD %REC										
13C-1,2,3,4,6,7,8,9-Cl8DD %REC										
13C-2,3,7,8-Cl4DF %REC										
13C-1,2,3,7,8-Cl5DF %REC										
13C-2,3,4,7,8-Cl5DF %REC										
13C-1,2,3,4,7,8-Cl6DF %REC										
13C-1,2,3,6,7,8-Cl6DF %REC										
13C-1,2,3,7,8,9-Cl6DF %REC										
13C-2,3,4,6,7,8-Cl6DF %REC										
13C-1,2,3,4,6,7,8-Cl7DF %REC										
13C-1,2,3,4,7,8,9-Cl7DF %REC										
13C-PCB-77 %REC										
13C-PCB-126 %REC										
13C-PCB-169 %REC										
i-TEQ(H) PCB-TEQ(4 PCBs)										

NA=Not determined N/A=Not Applicable ND=Less than MDL D=Less than QL I=Interference B=Upper Limit

PATH

CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY
700 HEINZ AVE SUITE 100, BERKELEY, 94710
Tel. 510-540-3003 FAX 510-540-2305

DIOXIN/FURAN REPORT

Sample Nos:	AV01594, AV01595, AV01595D, AV01596, AV01597
Collector Nos:	WEI-GL16-SW, WEI-GL20-W, WEI-GL20-W, WEI-UT03, WEI-UT06
Sample type	Soil
Sample Location	Western Environmental Inc; Mecca
Procedure	EPA-1613
Run:	
Instrument	MAT-95
Blank File	
GC Parameter File:	1613_60mdb5_03b
MS Parameter File:	1613_ptk_60mdioxin2_a
Autosampler File:	a200s_b
Comments:	

SAMPLE PREP:	Roshni Sarala	Signature: Rosh	Date: 03/07/12
GC/MS ANALYST:	Joginder Dhaliwal	Signature: J Dhaliwal	Date: 03/07/12
REVIEWING ANALYST:	Reber Brown	Signature: R Brown	Date: 03/08/12
SUPERVISOR:	June-Soo Park	Signature: Park June-Soo	Date: 3/21/12

CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY

Tel. 510-540-3003 Fax# 510-540-2305

DIOXIN/FURAN REPORT

collector's name: Greg Neal
collector's phone: 714-484-5455 Report Date: 2/10/2012
sampling site: Western Environment

ECL: AV01594, AV01595, AV01595D, AV01596, AV01597

HML-NUMBER :	AV01594		AV01595		AV01595D		AV01596		AV01597	
COLLECTOR'S NUMBER	WEI-GL16-SW		WEI-GL20-W		WEI-GL20-W		WEI-UT03		WEI-UT06	
MATRIX	Soil		Soil		Soil		Soil		Soil	
MOISTURE CONTENT										
FAT %	N/A		N/A		N/A		N/A		N/A	
UNITS	pg/g (dry wt)		pg/g (dry wt)		pg/g (dry wt)		pg/g (dry wt)		pg/g (dry wt)	
2,3,7,8-Cl4DD	1.41		2.91		1.99		0.114	ND	0.090	ND
1,2,3,7,8-Cl5DD	0.370	ND.	3.32		5.02		0.215	ND	0.362	B
1,2,3,4,7,8-Cl6DD	8.90		1.02	D	7.94		0.472	ND	0.353	D
1,2,3,6,7,8-Cl6DD	9.13		0.33	ND	9.52		1.89		0.850	D
1,2,3,7,8,9-Cl6DD	1.94		0.31	ND	7.62		0.550	ND	1.22	
1,2,3,4,6,7,8-Cl7DD	166		171		179		29.9		22.1	
1,2,3,4,6,7,8,9-Cl8DD	1927		1891		2020		317		215	
2,3,7,8-Cl4DF	20.7		9.91		47.23		0.226	ND	5.14	
1,2,3,7,8-Cl5DF	4.20		3.50		4.03		0.473		2.81	
2,3,4,7,8-Cl5DF	7.75		7.83		9.58		0.229	B	3.09	
1,2,3,4,7,8-Cl6DF	11.3		8.06		8.55		3.91		7.12	
1,2,3,6,7,8-Cl6DF	3.63	D	5.61		6.23		0.480	ND	0.904	B
1,2,3,7,8,9-Cl6DF	7.29		3.55		0.31	ND	3.72		5.31	
2,3,4,6,7,8-Cl6DF	3.06		0.28	ND	5.836		5.17		5.36	
1,2,3,4,6,7,8-Cl7DF	46.9		53.1		52.3		11.1		9.48	D
1,2,3,4,7,8,9-Cl7DF	8.29		5.11		5.56		1.31	D	5.92	
1,2,3,4,6,7,8,9-Cl8DF	110		109		115		16.1		19.7	
PCB-77										
PCB-81										
PCB-126										
PCB-169										
Cl4DD	0.000		6.36		9.36		0.000		2.15	
Cl5DD	0.000		14.3		22.2		0.000		5.71	
Cl6DD	43.6		75.1		81.0		15.6		10.4	
Cl7DD	366		364		375		62.5		46.4	
Cl4DF	0.000		52.0		264.7		0.000		33.0	
Cl5DF	0.000		50.2		126.4		0.000		52.0	
Cl6DF	99.4		75.8		86.7		10.7		30.0	
Cl7DF	136		131		138		23.5		30.1	
13C-2,3,7,8-Cl4DD %REC	77.88		89.78		81.01		90.11		82.84	
13C-1,2,3,7,8-Cl5DD %REC	69.18		95.83		80.76		93.10		80.87	
13C-1,2,3,4,7,8-Cl6DD %REC	102.86		97.17		82.18		85.27		81.53	
13C-1,2,3,6,7,8-Cl6DD %REC	88.90		87.67		74.75		75.15		74.74	
13C-1,2,3,4,6,7,8-Cl7DD %REC	91.55		93.03		83.78		75.13		83.41	
13C-1,2,3,4,6,7,8,9-Cl8DD %REC	71.37		82.45		74.47		65.35		70.42	
13C-2,3,7,8-Cl4DF %REC	54.61		84.66		73.37		76.13		65.48	
13C-1,2,3,7,8-Cl5DF %REC	69.64		85.27		73.54		83.14		75.60	
13C-2,3,4,7,8-Cl5DF %REC	51.11		89.32		73.86		78.68		66.63	
13C-1,2,3,4,7,8-Cl6DF %REC	106.22		94.34		87.75		76.92		95.05	
13C-1,2,3,6,7,8-Cl6DF %REC	108.37		98.11		89.98		80.71		96.62	
13C-1,2,3,7,8,9-Cl6DF %REC	69.83		88.13		75.17		75.29		64.24	
13C-2,3,4,6,7,8-Cl6DF %REC	70.56		97.39		83.37		79.62		69.85	
13C-1,2,3,4,6,7,8-Cl7DF %REC	87.68		84.03		73.52		67.84		84.04	
13C-1,2,3,4,7,8,9-Cl7DF %REC	82.93		89.35		76.37		71.90		81.36	
13C-PCB-77 %REC										
13C-PCB-126 %REC										
13C-PCB-169 %REC										
i-TEQ(H) PCB-TEQ(4 PCBs) - Soil/Ash	14.86		15.68		23.89		2.31		5.12	

NA=Not determined N/A=Not Applicable ND=Less than MDL D=Less than QL I=Interference B=Upper Limit

PATH

CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY

Tel. 510-540-3003 Fax# 510-540-2305

DIOXIN/FURAN REPORT

collector's name: Greg Neal **QA/QC** ECL: AV01594, AV01595, AV01595D, AV01596, AV01597
collector's phone: 714-484-5455 Report Date: 2/10/2012
sampling site: Western Environmental Inc; Mec

HML-NUMBER :	Method Blank					
COLLECTOR'S NUMBER						
MATRIX	solvent					
MOISTURE CONTENT						
FAT %						
UNITS	pg					
2,3,7,8-Cl4DD	0.151	ND				
1,2,3,7,8-Cl5DD	0.280	ND				
1,2,3,4,7,8-Cl6DD	0.219	ND				
1,2,3,6,7,8-Cl6DD	0.259	ND				
1,2,3,7,8,9-Cl6DD	0.241	ND				
1,2,3,4,6,7,8-Cl7DD	0.735					
1,2,3,4,6,7,8,9-Cl8DD	1.27	ND				
2,3,7,8-Cl4DF	0.249					
1,2,3,7,8-Cl5DF	0.080	ND				
2,3,4,7,8-Cl5DF	0.595					
1,2,3,4,7,8-Cl6DF	0.180	ND				
1,2,3,6,7,8-Cl6DF	0.755					
1,2,3,7,8,9-Cl6DF	0.606					
2,3,4,6,7,8-Cl6DF	0.197	ND				
1,2,3,4,6,7,8-Cl7DF	2.192					
1,2,3,4,7,8,9-Cl7DF	0.760					
1,2,3,4,6,7,8,9-Cl8DF	0.843	ND				
PCB-77						
PCB-81						
PCB-126						
PCB-169						
Cl4DD	1.26					
Cl5DD	3.91					
Cl6DD	0.57					
Cl7DD	2.34					
Cl4DF	1.03					
Cl5DF	1.83					
Cl6DF	2.28					
Cl7DF	5.06					
13C-2,3,7,8-Cl4DD %REC	89.32					
13C-1,2,3,7,8-Cl5DD %REC	91.13					
13C-1,2,3,4,7,8-Cl6DD %REC	92.34					
13C-1,2,3,6,7,8-Cl6DD %REC	84.83					
13C-1,2,3,4,6,7,8-Cl7DD %REC	91.16					
13C-1,2,3,4,6,7,8,9-Cl8DD %REC	80.72					
13C-2,3,7,8-Cl4DF %REC	82.23					
13C-1,2,3,7,8-Cl5DF %REC	81.65					
13C-2,3,4,7,8-Cl5DF %REC	83.36					
13C-1,2,3,4,7,8-Cl6DF %REC	92.37					
13C-1,2,3,6,7,8-Cl6DF %REC	95.85					
13C-1,2,3,7,8,9-Cl6DF %REC	87.82					
13C-2,3,4,6,7,8-Cl6DF %REC	94.51					
13C-1,2,3,4,6,7,8-Cl7DF %REC	84.55					
13C-1,2,3,4,7,8,9-Cl7DF %REC	87.15					
13C-PCB-77 %REC						
13C-PCB-126 %REC						
13C-PCB-169 %REC						
i-TEQ(H) PCB-TEQ(4 PCBs)	0.768					

NA=Not determined N/A=Not Applicable ND=Less than MDL D=Less than QL I=Interference B=Upper Limit

PATH

CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY

Tel. 510-540-3003 Fax# 510-540-2305

DIOXIN/FURAN REPORT

collector's name: Greg Neal
ECL: AV01594, AV01595, AV01595D, AV01596, AV01597
collector's phone: 714-484-5455 Report Date: 2/10/2012
sampling site: Western Environment

HML-NUMBER :	AV01594		AV01595		AV01595D		AV01596		AV01597	
COLLECTOR'S NUMBER	WEI-GL16-SW		WEI-GL20-W		WEI-GL20-W		WEI-UT03		WEI-UT06	
MATRIX	Soil		Soil		Soil		Soil		Soil	
MOISTURE CONTENT										
WEIGHT	2.00		2.00		2.00		2.00		2	
UNITS	Ratio		Ratio		Ratio		Ratio		Rato	
2,3,7,8-Cl4DD	18.7		38.7		26.4		1.52	ND	1.20	ND
1,2,3,7,8-Cl5DD	2.64	ND.	23.7		35.9		1.5	ND	2.58	B
1,2,3,4,7,8-Cl6DD	81.1		9.30	D	72.3		4.3	ND	3.21	D
1,2,3,6,7,8-Cl6DD	70.5		2.56	ND	73.5		14.6		6.56	D
1,2,3,7,8,9-Cl6DD	16.2		2.56	ND	63.4		4.57	ND	10.2	
1,2,3,4,6,7,8-Cl7DD	451		466		487.4		81.4		60.1	
1,2,3,4,6,7,8,9-Cl8DD	3035		2978		3182		500		339	
2,3,7,8-Cl4DF	166		79.6		379		1.82	ND	41	
1,2,3,7,8-Cl5DF	105		87.6		101		11.8		70.3	
2,3,4,7,8-Cl5DF	26.1		26.3		32.2		0.77	B	10.4	
1,2,3,4,7,8-Cl6DF	125		89.6		95.0		43.4		79.1	
1,2,3,6,7,8-Cl6DF	9.61	D	14.9		16.5		1.27	ND	2.39	B
1,2,3,7,8,9-Cl6DF	24.1		11.7		1.02	ND	12.3		17.5	
2,3,4,6,7,8-Cl6DF	31.1		2.85	ND	59.4		52.5		54.6	
1,2,3,4,6,7,8-Cl7DF	42.8		48.5		47.7		10.1		8.65	D
1,2,3,4,7,8,9-Cl7DF	21.8		13.5		14.6		3.45	D	15.6	
1,2,3,4,6,7,8,9-Cl8DF	261		258		273		38.2		46.7	
PCB-77										
PCB-81										
PCB-126										
PCB-169										
Cl4DD										
Cl5DD										
Cl6DD										
Cl7DD										
Cl4DF										
Cl5DF										
Cl6DF										
Cl7DF										
13C-2,3,7,8-Cl4DD %REC										
13C-1,2,3,7,8-Cl5DD %REC										
13C-1,2,3,4,7,8-Cl6DD %REC										
13C-1,2,3,6,7,8-Cl6DD %REC										
13C-1,2,3,4,6,7,8-Cl7DD %REC										
13C-1,2,3,4,6,7,8,9-Cl8DD %REC										
13C-2,3,7,8-Cl4DF %REC										
13C-1,2,3,7,8-Cl5DF %REC										
13C-2,3,4,7,8-Cl5DF %REC										
13C-1,2,3,4,7,8-Cl6DF %REC										
13C-1,2,3,6,7,8-Cl6DF %REC										
13C-1,2,3,7,8,9-Cl6DF %REC										
13C-2,3,4,6,7,8-Cl6DF %REC										
13C-1,2,3,4,6,7,8-Cl7DF %REC										
13C-1,2,3,4,7,8,9-Cl7DF %REC										
13C-PCB-77 %REC										
13C-PCB-126 %REC										
13C-PCB-169 %REC										
i-TEQ(H) PCB-TEQ(4 PCBs)										

NA=Not determined N/A=Not Applicable ND=Less than MDL D=Less than QL I=Interference B=Upper Limit

PATH

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY - LOS ANGELES
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 482-9739 or (213) 977-7929

CASE NARRATIVE

1. THIS ANALYTICAL REPORT PACKAGE WAS PREPARED FOR ECL SAMPLE(S) AV01585-AV01590

   SAMPLE AUTHORIZATION NUMBER 11SC0085

   SAMPLE INCLUDED IN THIS ANALYTICAL BATCH AV01585-AV01590

2. SAMPLES WERE COLLECTED ON 12/14/2011 - 12/16/2011 AT WEI Mecca
   62-150 Gene Welmos Ave. Mecca CA

3. COLLECTOR'S NAME ON THE SAMPLE ANALYSIS REQUEST FORM IS Greg Neal

4. SAMPLES WERE:

   RECEIVED ON 12/19/2011 BY ENVIRONMENTAL CHEMISTRY LABORATORY - LOS ANGELES

   EXTRACTED ON 12/22/2011 BY EPA 3060A ALKALINE DIGESTION FOR HEXAVALENT CHROMIUM

   ANALYZED ON 12/23/2011 BY EPA 7199 CR(VI) BY ION CHROMATOGRAPHY

   DATA PACKAGE WAS COMPLETED ON 1/9/2012

5. DURING THE COURSE OF THESE ANALYSES, ONE WAS ENCOUNTERED.

6 QC PARAMETERS/INDICATORS WERE WITHIN CONTROL LIMITS.

7. INSTRUMENT INITIAL CALIBRATION & CONTINUING CALIBRATION CRITERIA WERE MET.

8. SAMPLE HOLDING TIME WAS MET.

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY - LOS ANGELES
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 482-9739 or (213) 977-7929

INDEX

EPA 7199 FOR SAMPLE (S) AV01585-AV01590

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TOTAL PAGES = 7

State of California
California Environmental Protection Agency

Department of Toxic Substances Control
Environmental Chemistry Laboratory

3

ENVIRONMENTAL CHEMISTRY LABORATORY SAMPLE ANALYSIS REQUEST

1. Authorization Number: 11SC0085

ECL No.: AV01585 To AV01591

2. Page 1 of 1

3. Requestor: (to Receive Results) a. Name: Greg Neal
b. Address: 5796 Corporate Avenue (street number)
Cypress Ca 90630 (city, state, zip)
c. Phone: 7144845455 (area code first) d. Fax: 7144845411 (area code first)
e. Email: gneal@dtsc.ca.gov @dtsc.ca.gov

4. Project Name (if applicable): WEI Mecca

5. TAT Level: 2

6. Sampling Information: a. Date/Time Sampled: 12/14-12/16/11 (mm/dd/yy) (#:## AM/PM)
b. Location: EPA ID No.
Site: WEI Mecca
Address: 62-150 Gene Welmas Ave (street number)
Mecca Ca (city, state, zip)
GPS-Lat: GPS-Long:
GPS-Alt: GPS-Depth:

7. Codes (select from drop down list or fill in if applicable)
a. Unit
b. INDEX
c. PCA 36195
d. MPC 962
e. SITE 551115-48
f. County Riverside

8. Samples:

	a. ID	b. Collector's No.	c. ECL No.	d. Matrix	e. Container Size	f. Number of containers	g. Preservative / Field Information
1	WEI-GL03-NE		AV01585	Soil	3-8oz 2-4oz 3-VOA	8 12/14 10:04	ICE Methanol Sodium Bisulfate
2	WEI-GL07-NW		AV01586	Soil	3-8oz 4-4oz 3-VOA	12/14 12:24 16	ICE Methanol Sodium Bisulfate
~~3~~	~~WEI-GL07-NW~~		~~AV01587~~	~~Soil~~	~~3-8oz 2-4oz 3-VOA~~	~~8~~	~~ICE Methanol Sodium Bisulfate~~
4	WEI-GL16-SW		AV01587	soil	3-8oz 2-4oz 3 VOA	8 12/15 9:04	ICE Methanol Sodium Bisulfate
5	WEI-GL20-W		AV01588	soil	3-8oz 2-4oz 3 VOA	8 12/15 3:24	ICE Methanol Sodium Bisulfate
6	WEI-UT03		AV01589	soil	3-8oz 2-4oz 3VOA	8 12/14 11:08	ICE Methanol Sodium Bisulfate
7	WEI-UT06		AV01590	soil	3-8oz 2-4oz 3VOA	8 12/14 11:07	ICE Methanol Sodium Bisulfate
8	WEI-Blank		AV01591	liquid	3VOA	3	Methanol Sodium Bisulfate
9							

9. Analysis Requested: Enter sample IDs and sample ID ranges separated by commas: For example, 1-3, 5-7, 9

a. Inorganic Analysis	Sample(s) ID	b. Organic Analysis	Sample(s) ID
· Cyanide	1,2,4,5,6,7,	· Chlorinated Pesticides	1,2,4,5,6,7
· Mercury	1,2,4,5,6,7,	· Organo phosphate Pesticides	1,2,4,5,6,7
· Metals	1,2,4,5,6,7	· VOCs	1,2,4,5,6,7,8
· pH	1,2,4,5,6,7	· PCBs	1,2,4,5,6,7
· Hexavalent Chromium	1,2,4,5,6,7	· SVOCs	1,2,4,5,6,7
		· PAHs	1,2,4,5,6,7
		· Dioxins/furans	1,2,4,5,6,7
Other Metals:			
c. TCLP Analysis		**d. Other Analysis**	
Metals only if necessary	1,2,4,5,6,7		
Mercury only if necessary	1,2,4,5,6,7		

FIELD

e. Comments for Multiphasic Samples/Analysis Priority:

10. Analysis Objective: Human Health Risk

11. Detection Limit Requirements: (Check ECL User's Manual to assure default DL is sufficient.)
Lowest Achievable

12. Supplemental Requests: Enter sample IDs as described in Item 9

Desired Analysis	Sample(s) ID

Initials
Date

ECL

13. ECL Lab Remarks:
Cr+6, MS, pH, PCB, VOC, OCP's TCLP-MS

LAB

14. Chain of Custody:

	Name	Title	Signature	Inclusive Dates of Custody		
a.	Greg Neal	Geologist	Greg Neal	12/14/11	to	12/16/11
b.	Alfredo Zahorria	Geologist	[illegible]	12/16/11	to	12/19/11
c.	Greg Neal	Geologist	Greg Neal	12/19/11	to	12/19/11
d.	Barbara Bush	Lab Tech	Barbara Bush	12/19/11	to	/
e.					to	
f.					to	
g.					to	

COC

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY - LOS ANGELES
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 482-9739 or (213) 977-7929

REQUESTER: Greg Neal

ECL NO. AV01585-AV01590

SAMPLE LOCATION: WEI Mecca
62-150 Gene Welmos Ave.
Mecca CA

DATE RECEIVED: 12/19/2011
DATE PREPARED: 12/22/2011
DATE ANALYZED: 12/23/2011
DATE REPORTED: 1/9/2012

METHOD(S): EPA METHOD 3060A ALKALINE DIGESTION FOR HEXAVALENT CHROMIUM
EPA METHOD 7199 Cr(VI) BY ION CHROMATOGRAPHY

CR(VI) ANALYSIS REPORT

							QUANTITATION LIMIT				
	SCL NO.	AV01585	AV01586	AV01587	AV01588	AV01589	AV01585	AV01586	AV01587	AV01588	AV01589
	COL. NO.	WEI-GL03 -NE	WEI-GL07 -NW	WEI-GL16 -SW	WEI-GL20 -W	WEI-UT03	WEI-GL03 -NE	WEI-GL07 -NW	WEI-GL16 -SW	WEI-GL20 -W	WEI-UT03
	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
ANALYTE	UNIT	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
CR(VI)		ND	0.4	0.5	0.7	1.0	0.4	0.4	0.4	0.4	0.4

NOTES:
QUANTITATION LIMIT (QL) = (CONCENTRATION OF LOWEST CALIBRATION STANDARD) X (DILUTION FACTOR)

SAMPLE PREPARATION: Hae Lee 1/9/12
HAE LEE DATE

ANALYST: Hae Lee 1/9/12
HAE LEE DATE

REVIEWED: 1/9/12
MARIO VINOYA DATE

APPROVED BY: 1/10/2012
KEH-CHUH TING DATE

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY - LOS ANGELES
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 482-9739 or (213) 977-7929

REQUESTER: Greg Neal

ECL NO. AV01585-AV01590

SAMPLE LOCATION: WEI Mecca
62-150 Gene Welmos Ave.
Mecca CA

DATE RECEIVED: 12/19/2011
DATE PREPARED: 12/22/2011
DATE ANALYZED: 12/23/2011
DATE REPORTED: 1/9/2012

METHOD(S): EPA METHOD 3060A ALKALINE DIGESTION FOR HEXAVALENT CHROMIUM
EPA METHOD 7199 Cr(VI) BY ION CHROMATOGRAPHY

CR(VI) ANALYSIS REPORT

							QUANTITATION LIMIT				
	SCL NO.	AV01590					AV01590				
	COL. NO.	WEI-UT06					WEI-UT06				
	MATRIX	SOIL					SOIL				
ANALYTE	UNIT	mg/kg					mg/kg				
CR(VI)		ND					0.4				

NOTES:
QUANTITATION LIMIT (QL) = (CONCENTRATION OF LOWEST CALIBRATION STANDARD) X (DILUTION FACTOR)

AMPLE PREPARATION: Hae Lee 1/9/12
AE LEE DATE

ANALYST: Hae Lee 1/9/12
HAE LEE DATE

REVIEWED: 1/9/12
MARIO VINOYA DATE

PPROVED BY: 1/10/2012
EH-CHUH TING DATE

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY - LOS ANGELES
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 482-9739 or (213) 977-7929

REQUESTER'S NAME: Greg Neal

DATE SAMPLE RECEIVED: 12/19/2011

SAMPLING LOCATION: WEI Mecca
62-150 Gene Welmos Ave.
Mecca CA

DATE SAMPLE PREPARED: 12/22/2011

DATE SAMPLE ANALYZED: 12/23/2011

ANALYTICAL PROCEDURES USED:
EPA METHOD 7199 Cr (VI) BY ION CHROMATOGRAPHY
EPA METHOD 3060A ALKALINE DIGESTION FOR HEXAVALENT CHROMIUM

QC REPORT FOR

A: METHOD BLANK
B: METHOD STANDARD RECOVERY
C: LABORATORY CONTROL SAMPLE - NA
D: SAMPLE DUPLICATE ANALYSIS

	A	B	
	METHOD BLANK	METHOD STANDARD	
		RECOVERY	CONTROL LIMIT
COMPOUND	mg/kg	%	%
CR(VI)	<0.001	99.8	70 - 130

D			
SAMPLE DUPLICATE ANALYSIS			
PERFORMED ON : ECL NO. AV01585			
MATRIX : SOIL			
	RUN 1	RUN 2	RPD
COMPOUND	mg/kg	mg/kg	%
CR(VI)	ND	ND	-

ND = NOT DETECTED

SAMPLE PREPARATION: Hae Lee 1/9/12
HAE LEE DATE

ANALYST: Hae Lee 1/9/12
HAE LEE DATE

REVIEWED: 1/9/12
MARIO VINOYA DATE

APPROVED BY: 1/10/2012
KEH-CHUH TING DATE

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY - LOS ANGELES
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 482-9739 or (213) 977-7929

REQUESTER'S NAME: Greg Neal

DATE SAMPLE RECEIVED: 12/19/2011

SAMPLING LOCATION: WEI Mecca
62-150 Gene Welmos Ave.
Mecca CA

DATE SAMPLE PREPARED: 12/22/2011

DATE SAMPLE ANALYZED: 12/23/2011

ANALYTICAL PROCEDURES USED:
EPA METHOD 3060A ALKALINE DIGESTION FOR HEXAVALENT CHROMIUM
EPA METHOD 7199 Cr(VI) BY ION CHROMATOGRAPHY

QC REPORT FOR MATRIX SPIKE(MS)/MATRIX SPIKE DUPLICATE(MSD) PERCENT RECOVERY

MATRIX SPIKE PERFORMED ON AV01585
TYPE OF MATRIX SOLID
TYPE OF SPIKE CR(VI) ABSOLUTE STANDARD

COMPOUND	AMOUNT OF ANALYTE IN SAMPLE	AMOUNT OF ANALYTE ADDED	MATRIX SPIKE AMOUNT RECOVERED	MATRIX SPIKE %REC	MATRIX SPIKE DUPLICATE AMOUNT RECOVERED	MATRIX SPIKE DUPLICATE %REC	AVE % REC	CONTROL LIMITS FOR % REC	R % D BETWEEN MS/MSD	CONTROL LIMITS FOR RPD
	mg/kg	mg/kg	mg/kg	%	mg/kg	%	%	%	%	%
CR(VI)	ND	11	9.5	86	9.3	84	85	70 - 130	1.9	20

NOTES: ND = NOT DETECTED

SAMPLE PREPARATION:
Hae Lee 1/9/12
HAE LEE DATE

ANALYST:
Hae Lee 1/9/12
HAE LEE DATE

REVIEWED
1/9/12
MARIO VINOYA DATE

APPROVED BY:
1/10/2012
KEH-CHUH TING DATE

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY - LOS ANGELES
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 977-7928; (213)482-9739

CASE NARRATIVE

1. THIS ANALYTICAL REPORT PACKAGE WAS PREPARED FOR ECL SAMPLE(S) AV01585 - AV01591

   SAMPLE AUTHORIZATION NO. : 11SC0085

   SAMPLES INCLUDED IN THIS ANALYTICAL BATCH ARE: AV01585 - AV01590

2. SAMPLES WERE COLLECTED ON 12/14/11 - 12/16/11 AT WEI MECCA
   62-150 GERE WELMOS AVE
   MECCA, CA

3. COLLECTOR'S NAME ON THE SAMPLE ANALYSIS REQUEST FORM IS GREG NEAL

4. SAMPLES WERE:

RECEIVED ON	12/19/11	BY ENVIRONMENTAL CHEMISTRY LABORATORY-L.A.		
DIGESTED ON	12/28/11	BY EPA METHOD	3050B	ACID DIGESTION
ANALYZED ON	12/29/11 - 1/10/12	BY EPA METHOD	6010B	ICP - AES

   DATA PACKAGE WAS COMPLETED ON 1/11/2012

5. THE SAMPLES WERE DRIED BEFORE ANALYSIS TO OBTAIN A HOMOGENEOUS SAMPLE. HOWEVER, RESULTS WERE RECALCULATED BACK TO WET BASIS.

6. QC PARAMETERS/INDICATORS WERE WITHIN CONTROL LIMITS EXCEPT AS NOTED IN THE QC SHEET.

7. INSTRUMENT INITIAL CALIBRATION & CONTINUING CALIBRATION CRITERIA WERE MET.

8. SAMPLE HOLDING TIME WAS MET.

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY - LOS ANGELES
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 977-7928; (213)482-9739

INDEX

EPA 6010B FOR SAMPLE (S) AV01585 - AV01590

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5.	QC REPORT FOR a. Method Blank b. Calibration Verification Standard c. Laboratory Control Sample d. Sample Duplicate Analysis	5
6.	QC REPORT FOR Matrix Spike / Matrix Spike Duplicate % Recovery	6

TOTAL PAGES = 6

State of California
California Environmental Protection Agency

Department of Toxic Substances Control
Environmental Chemistry Laboratory

3

ENVIRONMENTAL CHEMISTRY LABORATORY SAMPLE ANALYSIS REQUEST	1. Authorization Number 11SC0085	ECL No.: AV01585 To AV01591	2. Page 1 of 1

3. Requestor: (to Receive Results) a. Name: Greg Neal
b. Address: 5796 Corporate Avenue (street number)
Cypress Ca 90630 (city, state, zip)
c. Phone: 7144845455 (area code first) d. Fax: 7144845411 (area code first)
e. Email: gneal@dtsc.ca.gov @dtsc.ca.gov

4. Project Name (if applicable): WEI Mecca

5. TAT Level: 2

6. Sampling Information: a. Date/Time Sampled: 12/14-12/16/11 (mm/dd/yy) (#:## AM/PM)
b. Location: EPA ID No.
Site: WEI Mecca
Address: 62-150 Gene Welmas Ave (street number)
Mecca Ca (city, state, zip)
GPS-Lat: GPS-Long:
GPS-Alt: GPS-Depth:

7. Codes (select from drop down list or fill in if applicable)
a. Unit
b. INDEX
c. PCA 36195
d. MPC 962
e. SITE 551115-48
f. County Riverside

8. Samples:

	a. ID	b. Collector's No.	c. ECL No.	d. Matrix	e. Container Size	f. Number of containers	g. Preservative / Field Information
1	WEI-GL03-NE		AV01585	Soil	3-8oz 2-4oz 3-VOA	8 12/14 10:04	ICE Methanol Sodium Bisulfate
2	WEI-GL07-NW		AV01586	Soil	3-8oz 2-4oz 3-VOA	8 12/14 12:24	ICE Methanol Sodium Bisulfate
MS/MSD	~~WEI-GL07-NW~~		~~EPA~~	Soil	~~3-8oz 2-4oz 3-VOA~~	8	ICE Methanol Sodium Bisulfate
4	WEI-GL16-SW		AV01587	soil	3-8oz 2-4oz 3 VOA	8 12/15 9:04	ICE Methanol Sodium Bisulfate
5	WEI-GL20-W		AV01588	soil	3-8oz 2-4oz 3 VOA	8 12/15 3:24	ICE Methanol Sodium Bisulfate
6	WEI-UT03		AV01589	soil	3-8oz 2-4oz 3 VOA	8 12/16 9:09	ICE Methanol Sodium Bisulfate
7	WEI-UT06		AV01590	soil	3-8oz 2-4oz 3 VOA	8 12/16 11:07	ICE Methanol Sodium Bisulfate
8	WEI-Blank		AV01591	liquid	3 VOA	3	Methanol Sodium Bisulfate
9							

9. Analysis Requested: Enter sample IDs and sample ID ranges separated by commas: For example, 1-3, 5-7, 9

a. Inorganic Analysis	Sample(s) ID	b. Organic Analysis	Sample(s) ID
· Cyanide	1,2,4,5,6,7,8	· Chlorinated Pesticides	1,2,4,5,6,7
· Mercury	1,2,4,5,6,7	· Organo phosphate Pesticides	1,2,4,5,6,7
· Metals	1,2,4,5,6,7	· VOCs	1,2,4,5,6,7,8
· pH	1,2,4,5,6,7	· PCBs	1,2,4,5,6,7
· Hexavalent Chromium	1,2,4,5,6,7	· SVOCs	1,2,4,5,6,7
		· PAHs	1,2,4,5,6,7
		· Dioxins/furans	1,2,4,5,6,7
Other Metals:			

c. TCLP Analysis		d. Other Analysis
Metals only if necessary	1,2,4,5,6,7	
Mercury only if necessary	1,2,4,5,6,7	

e. Comments for Multiphasic Samples/Analysis Priority:

10. Analysis Objective: Human Health Risk

11. Detection Limit Requirements: (Check ECL User's Manual to assure default DL is sufficient.)
Lowest Achievable

12. Supplemental Requests: Enter sample IDs as described in Item 9

Desired Analysis	Sample(s) ID

Initials
Date

13. ECL Lab Remarks: Cr+6, MS, pH, PCB, VOC, OCPs TCLP-MS

14. Chain of Custody:

	Name	Title	Signature	Inclusive Dates of Custody	
a.	Greg Neal	Geologist	Greg Neal	12/14/11	to 12/16/11
b.	Alfredo Zahonia	Geologist	[illegible]	12/16/11	to 12/19/11
c.	Greg Neal	Geologist	Greg Neal	12/19/11	to 12/19/11
d.	Barbara Bush	Lab Tech	Barbara Bush	12/19/11	to /
e.					to
f.					to
g.					to

FIELD

LAB

COC

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY - LOS ANGELES
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 977-7928; (213)482-9739

REQUESTER: GREG NEAL

ECL NO.: AV01585 - AV01591

SAMPLE LOCATION: WEI MECCA
62-150 GERE WELMOS AVE
MECCA, CA

DATE REPORTED: 1/11/2012

METHOD(S): EPA 3050B ACID DIGESTION
EPA 6010B ICP - AES

METAL SCAN (TTLC) ANALYSIS

	ECL NO.	AV01585	AV01586	AV01587	AV01588	AV01589	AV01590			
	COL. NO.	WEI-GL08-NE	WEI-GL07-NW	WEI-GL16-SW	WEI-GL70-W	WEI-UT03	WEI-UT06			
	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
ANALYTE	UNIT	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			
	TTLC-LIMIT, mg/kg									
Ag - SILVER	500	<10	<10	<10	<10	<10	<10			
As - ARSENIC	500	<10	<10	12	<10	<10	14			
Ba - BARIUM	10,000	470	340	210	190	780	1700			
Be - BERYLLIUM	75	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			
Cd - CADMIUM	100	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0			
Co - COBALT	8,000	13	<10	<10	<10	17	<10			
Cr - CHROMIUM	2,500	35	24	34	30	28	18			
Cu - COPPER	2,500	100	64	150	130	40	25			
Mo - MOLYBDENUM	3,500	<10	<10	<10	<10	<10	<10			
Ni - NICKEL	2,000	37	23	41	42	37	15			
Pb - LEAD	1,000	74	46	150	110	26	22			
Sb - ANTIMONY	500	<10	<10	<10	<10	<10	<10			
Se - SELENIUM	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			
Tl - THALLIUM	700	<10	<10	<10	<10	<10	<10			
V - VANADIUM	2,400	45	31	34	31	25	41			
Zn - ZINC	5,000	280	230	510	430	82	130			

NOTE: < = BELOW DETECTION LIMIT OF METHOD

SAMPLE PREPARATION
1/11/12
MARIO VINOYA DATE

ANALYST:
1/11/12
MARIO VINOYA DATE

SUPERVISOR
1/12/2012
KEH-CHUH TING DATE

REVIEWED BY:
1/12/2012
ANNA TOMA DATE

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY - LOS ANGELES
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 977-7928; (213)482-9739

REQUESTER'S NAME: GREG NEAL

SAMPLING LOCATION: WEI MECCA
62-150 GERE WELMOS AVE
MECCA, CA

METHOD(S): EPA 3050B ACID DIGESTION
EPA 6010B ICP - AES

DATE SAMPLES RECEIVED 11/18/2011

DATE SAMPLES PREPARED 12/28/2011

DATE SAMPLES ANALYZED 12/29/11 - 1/10/12

QC REPORT FOR METHOD BLANK, CVS, LCS, AND SAMPLE DUPLICATE for solid

		METHOD BLANK	VERIFICATION STANDARD		LABORATORY CONTROL SAMPLE FOR TOTAL METALS		SAMPLE DUPLICATE AV01585			
							A	B		
ANALYTE			FOUND	KNOWN	FOUND	CONTROL			RPD	CONTROL
	UNITS	mg/L	mg/L	mg/L	mg/kg	LIMITS	mg/kg	mg/kg	%	LIMITS
Ag - SILVER		<0.2	4.2	4.0	822	638 - 1015	ND	ND	NC	20
As - ARSENIC		<0.2	3.9	4.0	1256	1103 - 1399	ND	ND	NC	20
Ba - BARIUM *		<0.2	4.0	4.0	1889	1600 - 2096	474	306	43	20
Be - BERYLLIUM		<0.02	0.80	0.80	73	67 - 84	ND	ND	NC	20
Cd - CADMIUM		<0.04	0.81	0.80	320	277 - 343	ND	ND	NC	20
Co - COBALT		<0.2	4.0	4.0	1429	1267 - 1625	13.2	12.3	6.7	20
Cr - CHROMIUM		<0.2	4.0	4.0	1331	1175 - 1496	35.2	31.1	12	20
Cu - COPPER		<0.2	3.9	4.0	1718	1566 - 2135	104	107	3.4	20
Mo - MOLYBDENUM		<0.2	4.1	4.0	1893	1708 - 2158	ND	ND	NC	20
Ni - NICKEL		<0.2	4.0	4.0	1435	1245 - 1605	36.8	33.2	10	20
Pb - LEAD		<0.2	4.1	4.0	1041	833 - 1169	73.6	74.2	0.80	20
Sb - ANTIMONY		<0.2	4.0	4.0	838	703 - 933	ND	ND	NC	20
Se - SELENIUM		<0.02	0.83	0.80	576	478 - 614	ND	ND	NC	20
Tl - THALLIUM		<0.2	3.8	4.0	529	454 - 619	ND	ND	NC	20
V - VANADIUM		<0.2	4.1	4.0	782	667 - 838	45.3	43.0	5.2	20
Zn - ZINC		<0.2	4.0	4.0	2071	1634 - 2143	283	326	14	20

NOTES: < = Below detection limit of the method NC = NOT CALCULATED ND = NON DETECTED
* RPD is beyond control limit because the sample is not homogeneous.

SAMPLE PREPARATION: 1/11/12
MARIO VINOYA DATE

ANALYST: 1/11/12
MARIO VINOYA DATE

SUPERVISOR 1/12/2012
KEH-CHUH TING DATE

REVIEWED BY: 1/12/2012
ANNA TOMA DATE

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY - LOS ANGELES
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 977-7928; (213)482-9739

REQUESTER'S NAME: GREG NEAL

SAMPLING LOCATION: WEI MECCA
62-150 GERE WELMOS AVE
MECCA, CA

METHOD(S): EPA 3050B ACID DIGESTION
EPA 6010B ICP - AES

DATE SAMPLES RECEIVED 11/18/2011
DATE SAMPLES PREPARED 12/28/2011
DATE SAMPLES ANALYZED 12/29/11 - 1/10/12

QC REPORT FOR MATRIX SPIKE(MS)/MATRIX SPIKE DUPLICATE(MSD) PERCENT RECOVERY

MATRIX SPIKE PERFORMED ON : AV01587 TYPE OF MATRIX : **SOIL**
I.D. OF SPIKE : ME1111MV 400/100/20

COMPOUND	AMOUNT OF ANALYTE IN SAMPLE	AMOUNT OF ANALYTE ADDED	MATRIX SPIKE		MATRIX SPIKE DUPLICATE		AVE % REC	CONTROL LIMITS FOR % REC	R % D BETWEEN MS/MSD	CONTROL LIMITS FOR RPD
			AMOUNT RECOVERED	%REC	AMOUNT RECOVERED	%REC				
	mg/kg	mg/kg	mg/kg	%	mg/kg	%	%	%	%	%
Ag - SILVER	<10	173	168	97	181	105	101	70 - 130	7.4	20
As - ARSENIC	12	173	183	99	180	97	98	70 - 130	2.2	20
Ba - BARIUM *	210	173	473	152	363	89	121	70 - 130	53	20
Be - BERYLLIUM	<1.0	35	34	96	34	96	96	70 - 130	0.33	20
Cd - CADMIUM	<2.0	35	34	95	34	97	96	70 - 130	1.7	20
Co - COBALT	<10	173	173	94	175	96	95	70 - 130	1.6	20
Cr - CHROMIUM	34	173	204	98	207	100	99	70 - 130	1.9	20
Cu - COPPER	150	173	323	99	350	115	107	70 - 130	15	20
Mo - MOLYBDENUM	<10	173	164	91	166	93	92	70 - 130	1.4	20
Ni - NICKEL	41	173	206	95	208	97	96	70 - 130	1.6	20
Pb - LEAD *	150	173	486	195	313	96	145	70 - 130	69	20
Sb - ANTIMONY	<10	173	149	83	148	82	83	70 - 130	0.56	20
Se - SELENIUM	<1.0	35	33	93	33	93	93	70 - 130	0.83	20
Tl - THALLIUM	<10	173	165	94	163	93	93	70 - 130	1.1	20
V - VANADIUM	34	173	201	96	201	96	96	70 - 130	0.18	20
Zn - ZINC *	510	173	795	165	1029	300	232	70 - 130	58	20

NOTES:
* R%D for Ba, Pb and Zn are beyond control limits because the sample is not homogeneous.

SAMPLE PREPARATION
1/11/12
MARIO VINOYA DATE

ANALYST
1/11/12
MARIO VINOYA DATE

SUPERVISOR
1/12/2012
KEH-CHUH TING DATE

REVIEWED BY:
1/12/2012
ANNA TOMA DATE

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY - LOS ANGELES
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 977-7928, (213) 482-9739

CASE NARRATIVE

1. THIS ANALYTICAL REPORT PACKAGE WAS PREPARED FOR ECL SAMPLE(S) AV01585 - AV01591

   SAMPLE AUTHORIZATION N0. : 11SC0085

   SAMPLES INCLUDED IN THIS ANALYTICAL BATCH AV01585,AV01587, AV01588, AV01590

2. SAMPLES WERE COLLECTED ON 12/14-16/2011 AT WEI Mecca
   62-150 Gene Welmos Ave.
   Mecca CA

3. COLLECTOR'S NAME ON THE SAMPLE ANALYSIS REQUEST FORM IS Greg Neal

4. SAMPLES WERE:

RECEIVED ON	1/18/2011	BY ENVIRONMENTAL CHEMISTRY LABORATORY - LOS ANGELES		
EXTRACTED ON	1/18-20/2012	HML SOP	910	WET (CALIFORNIA WASTE EXTRACTION TEST-STLC)
ANALYZED ON	1/27/2012	EPA METHOD	6010B	ICP - AES

   DATA PACKAGE WAS COMPLETED ON 1/31/2012

5. RECOVERIES FOR "Ag & Zn" WERE LOW IN MATRIX SPIKE/ MATRIX SPIKE DUPLICATES. POST SPIKE/ POST SPIKE DUPLICATE & DILUTION TESTS WERE PERFORMED & CONFIRMED THE MATRIX EFFECT FOR "Ag & Zn". THE DILUTION TEST FOR Zn WAS REPORTED FROM DIFFERENT DATA PACKAGE.

6. % RPD FOR Pb IN SAMPLE ECL ID AV01585 & AV01585 DUPLICATE WAS 3% OVER THE CONTROL LIMIT, POSSIBLY DUE TO HETEROGENEITY OF SAMPLE.

7. SAMPLE HOLDING TIME WAS MET.

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY - LOS ANGELES
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 977-7928, (213) 482-9739

INDEX

HML SOP 910 S FOR SAMPLE (S) AV01585-AV01591

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TOTAL PAGES = 9

State of California
California Environmental Protection

Department of Toxic Substances Control
Environmental Chemistry Laboratory

SUPPLEMENTAL ☐
(Check if Supplemental Requested)

AUTHORIZATION REQUEST FORM (ARF)

PART A : (By Requestor - PLEASE PRINT)

*Unit chief's signature required: (for Rush or TAT Level = 1)

Turnaround Time (TAT) : *Rush ☐ *Level 1 ☐ 2 ☑ 3 ☐

Requestor's Name	Greg Neal	Email	gneal @dtsc.ca.gov	Phone	(714) 484-5455
Region	04--Cypress	Unit	BERP-Engineering & Geology	Fax	(714) 484-5411
Back-up Requestor	Alfredo Zanoria			Phone	(714) 484-5422
Site Name	Western Environmental Inc - Mecca				AREA CODE

PART B: Analytical Requests (By Requestor) (Lab uses default methods listed below. Please specify all other requests.)

Inorganic Analysis	Number of Samples/Type Solid	Liquid	Water	Other
% Dry Solids (ECL730-S)				
Acidity (305-1)				
Alkalinity (310-1)				
Anions by IC (9056)				
Chromium VI(Cr^{6+}) by Colorimetric (7196A)	10			
Chromium VI(Cr^{6+}) in Water by IC (7199)				
Cyanides for Wastes,Leachates (9010B)	10 — TO ATL			
Hardness (130-2)				
Mercury(Hg) in (Semi)Solid Waste (7471A)				
Mercury(Hg) in Liquid Waste (7470A)				
Metals Screening by XRF				
Metals Scan (6010B, for As,Ba,Cu,Pb, etc)	10			
Metals Scan (for Drinking water, 6020A)				
OrganoLead in Waste (ECL938-M)				
Particle Size (ECL740-S)				
Perchlorate for Soil,Sludge (ECL955-M)				
Perchlorate for Water (314-0)				
pH (9040B, 9045C)	10			
Total Dissolved Solids (160-1)				
WET(ECL910-S) ☐ Only if necessary ☐ Do it regardless				
(others, type in)				

Organic Analysis	Number of Samples/Type Solid	Liquid	Water	Other
GRO (Gasoline, 8015B)				
DRO(Diesel) only (ECL816-M)				
Motor Oil only (ECL816-M)				
DRO(Diesel) & Motor Oil (ECL816-M)				
EthyleneGlycol (ECL772-M)				
PBDEs (ECL750-M)				
PCBs (8082)	10			
Pesticides - Chlorinated (8081A)	10			
Pesticides - Organophosphate (8141A)	10 — TO ATL			
1,4-Dioxane (ECL830-S)				
GC/MS Semivolatiles (8270C)				
Volatiles (8260B)	10			
HPLC Carbonyl Compounds (8315A)				
Explosives (8330)				
PAHs (8310)				
Dioxins/Furans by HRGC/HRMS (ECL880-M)				
Flash Point (1020A)				
n-Hexane Extractables/TPH (1664)				
TXO-Total Halogens in Oil (ECL792-S)				
(others, type in)				
(others, type in)				

TCLP Analysis**			
Metals	☑ Only if necessary	☐ Do it regardless	10
Mercury	☐ Only if necessary	☐ Do it regardless	
Volatiles	☐ Only if necessary	☐ Do it regardless	
Semivolatiles	☐ Only if necessary	☐ Do it regardless	
(others, type in)			

Other Analysis
Fish Bioassay (Title 22)
Congener PCBs (ECL-CG-PCB)
Congener PBDEs (ECL-CG-PBDE)
(others,type in)
(others, type in)

Analysis Objective: Site Characterization

Special Instructions or Comments (For Example: Detection Limit, Sample Preparation, Extraction..., etc.):

Lowest achieveable DLs. Dioxins/furans by EPA 8290 if DL is lower than ECL method. Cyanide by 9010 if DL is lower than 9014.

Expected Sample Arrival Date: 12/16/11 (mm/dd/yy)

PART C : (By SMO - ECL)

Authorization Number (AN): **11SC0085 BERP**

ARF's Revision No. Initials: Date:

Lab to Receive Sample(s): Southern California Lab, 1449 W. Temple St. Rm. 105, Los Angeles, CA 90026, Barbara Bush (213) 482-9744

ARF's Revision No. Initials: Date:

Sample Management Officer (SMO): [signature]

☐ Check box if cancelled
Initials: Date:

Today's Date: 12/09/11 (mm/dd/yy) Expiration Date: 12/26/11 (mm/dd/yy)

If Sample(s) Directed to Contract Lab, Please Specify:

Reason:

ECL Personnel Confirmed:

ECL Contract Lab Manager Notification (for Rush or TAT Level =1):

Turnaround Time (TAT): * Rush for public health and safety or emergency, *Level 1 = 15 days, 2 = 30 days, 3 = 45 days.
**TCLP If time permits and sample matrix type is appropriate, lab may analyze or screen the sample(s) first to determine if TCLP is needed.
Reference: ECL User's Manual

State of California
California Environmental Protection Agency

Department of Toxic Substances Control
Environmental Chemistry Laboratory

ENVIRONMENTAL CHEMISTRY LABORATORY
SAMPLE ANALYSIS REQUEST

1. Authorization Number: 11SC0085

ECL No.: AV01585 To AV01591

2. Page 1 of 1

3. Requestor: (to Receive Results) a. Name: Greg Neal
b. Address: 5796 Corporate Avenue (street number)
Cypress Ca 90630 (city, state, zip)
c. Phone: 7144845455 (area code first) d. Fax: 7144845411 (area code first)
e. Email: gneal@dtsc.ca.gov @dtsc.ca.gov

4. Project Name (if applicable): WEI Mecca

5. TAT Level: 2

6. Sampling Information: a. Date/Time Sampled: 12/14-12/16/11 (mm/dd/yy) (#:## AM/PM)
b. Location: EPA ID No.
Site: WEI Mecca
Address: 62-150 Gene Wilmos Ave (street number)
Mecca Ca (city, state, zip)
GPS-Lat: GPS-Long:
GPS-Alt: GPS-Depth:

7. Codes (select from drop down list or fill in if applicable)
a. Unit
b. INDEX
c. PCA 36195
d. MPC 962
e. SITE SS1115-48
f. County Riverside

8. Samples:

	a. ID	b. Collector's No	c. ECL No	d. Matrix	e. Container Size	f. Number of containers	g. Preservative / Field Information
1	WEI-6L08-NE		AV01585	Soil	3-8oz 2-4oz 3-VOA	8	ICE Methanol Sodium Bisulfate
2	WEI-6L07-NW		AV01586	Soil	3-8oz 2-4oz 3-VOA	8	ICE Methanol Sodium Bisulfate
~~NW~~	~~WEI-6L07-NW-Dup~~			~~Soil~~	~~3-8oz 2-4oz 3-VOA~~	~~8~~	~~ICE Methanol Sodium Bisulfate~~
4	WEI-6L16-SW		AV01587	Soil	3-8oz 2-4oz 3 VOA	8	ICE Methanol Sodium Bisulfate
5	WEI-6L20-W		AV01588	Soil	3-8oz 2-4oz 3 VOA	8	ICE Methanol Sodium Bisulfate
6	WEI-UT03		AV01589	Soil	3-8oz 2-4oz 3 VOA	8	ICE Methanol Sodium Bisulfate
7	WEI-UT06		AV01590	Soil	3-8oz 2-4oz 3 VOA	8	ICE Methanol Sodium Bisulfate
8	WEI-Blank		AV01591	Liquid	3 VOA	3	Methanol Sodium Bisulfate
9							

9. Analysis Requested: Enter sample IDs and sample ID ranges separated by commas: For example, 1-3, 5-7, 9

a. Inorganic Analysis	Sample(s) ID	b. Organic Analysis	Sample(s) ID
Cyanide	1,2,4,5,6,7,8	Chlorinated Pesticides	1,2,4,5,6,7
Mercury	1,2,4,5,6,7	Organo~~Chlorine~~ phosphorus Pesticides	1,2,4,5,6,7
Metals	1,2,4,5,6,7	VOCs	1,2,~~3~~4,5,6,7,8
pH	1,2,4,5,6,7	PCBs	1,2,4,5,6,7
Hexavalent Chromium	1,2,4,5,6,7	SVOCs	1,2,4,5,6,7
		PAHs	1,2,4,5,6,7
		Dioxins/furans	1,2,4,5,6,7
Other Metals:			

c. TCLP Analysis		d. Other Analysis
Metals Only if necessary	1,2,4,5,6,7	
Mercury Only if necessary	1,2,4,5,6,7	

e. Comments for Multiphasic Samples/Analysis Priority:

10. Analysis Objective: Human Health Risk

11. Detection Limit Requirements: (Check ECL User's Manual to assure default DL is sufficient.)
Lowest Achievable

12. Supplemental Requests: Enter sample IDs as described in Item 9

Desired Analysis	Sample(s) ID
Metals STLC	1,4,5,7

MA Initials
1/18/12 Date

13. ECL Lab Remarks:
Cyanide, pH, PCB, VOC, OCP's TCLP-MS

14. Chain of Custody:

	Name	Title	Signature	Inclusive Dates of Custody		
a.	Greg Neal	Geologist	Greg Neal	12/14/11	to	12/16/11
b.	Alfredo Quinonia	Geologist	[illegible]	12/16/11	to	12/19/11
c.	Greg Neal	Geologist	Greg Neal	12/19/11	to	12/19/11
d.	Barbara Bush	Lab Tech	Barbara Bush	12/19/11	to	/
e.					to	
f.					to	
g.					to	

FIELD

LAB

COC

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY - LOS ANGELES
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 977-7928, (213) 482-9739

REQUESTOR: Greg Neal

DATE SAMPLES RECEIVED: 1/18/2012

SAMPLE LOCATION: WEI Mecca
62-150 Gene Welmos Ave.
Mecca CA

DATE SAMPLES PREPARED: 1/18-20/2012

DATE SAMPLES ANALYZED: 1/27/2012

METHOD(S): HML 910 WET (CALIFORNIA WASTE EXTRACTION TEST-STLC)
EPA 6010B ICP - AES

WET (California Waste Extraction Test - STLC)

ANALYTE	ECL NO.		AV01585	AV01587	AV01588	AV01590					
	COL. NO.		WEI-GL03-NE	WEI-GL16-SW	WEI-GL70-W	WEI-UT06					
	MATRIX		SOIL	SOIL	SOIL	SOIL					
	UNIT	mg/L	mg/L	mg/L	mg/L	mg/L					
		STLC LIMIT									
Ag - SILVER		*5.0*	ND	ND	ND	ND					
As - ARSENIC		*5.0*	ND	1.02	0.808	0.597					
Ba - BARIUM		*100*	2.74	2.97	2.36	7.78					
Be - BERYLLIUM		*0.75*	ND	ND	ND	ND					
Cd - CADMIUM		*1.0*	ND	0.161	0.155	ND					
Co - COBALT		*80*	ND	ND	ND	ND					
Cr - CHROMIUM		*5.0*	0.567	1.25	0.658	ND					
Cu - COPPER		*25*	ND	0.77	12	ND					
Mo - MOLYBDENUM		*350*	ND	ND	ND	ND					
Ni - NICKEL		*20*	0.787	1.31	0.840	0.513					
Pb - LEAD		*5.0*	2.10	**8.01**	4.09	1.39					
Sb - ANTIMONY		*15*	ND	ND	ND	ND					
Se - SELENIUM		*1.0*	ND	ND	ND	ND					
Tl - THALLIUM		*7.0*	ND	ND	ND	ND					
V - VANADIUM		*24*	0.906	1.57	1.20	0.677					
Zn - ZINC		*250*	16.3	40.8	28.2	7.76					

NOTES:

SAMPLE PREPARATION: 2/2/12
GUILAN SARTIPPOUR DATE

ANALYST: 2/2/12
GUILAN SARTIPPOUR DATE

APPROVED BY: 2/2/12
MUI SAM DATE

REVIEWED BY: 2/2/12
MARIO VINOYA DATE

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY - LOS ANGELES
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 977-7928, (213) 473-9739

REQUESTER'S NAME: Greg Neal

DATE SAMPLES RECEIVED: 1/18/2012

SAMPLING LOCATION: WEI Mecca
62-150 Gene Welmos Ave.
Mecca CA

DATE SAMPLES PREPARED: 1/18-20/2012

DATE SAMPLES ANALYZED: 1/27/2012

METHOD(S): HML 910 WET (CALIFORNIA WASTE EXTRACTION TEST-STLC)
EPA 6010B ICP - AES

QC REPORT FOR METHODS BLANKS, CVS, LCS, AND SAMPLE DUPLICATE

		METHOD BLANK	VERIFICATION STANDARD		LABORATORY CONTROL SAMPLE (LCS)		SAMPLE DUPLICATE AV01585			
							A	B		
ANALYTE	UNITS		FOUND	KNOWN		CONTROL			RPD	CONTROL
		mg/L	mg/L	mg/L	mg/L	LIMITS	mg/L	mg/L	%	LIMITS
Ag - SILVER		ND	20	20	8.3	8.0 - 12	ND	ND	NC	20
As - ARSENIC		ND	20	20	10	8.0 - 12	ND	ND	NC	20
Ba - BARIUM		ND	20	20	9.9	8.0 - 12	2.74	2.68	2.1	20
Be - BERYLLIUM		ND	4.0	4.0	1.9	1.6 - 2.4	ND	ND	NC	20
Cd - CADMIUM		ND	4.1	4.0	1.9	1.6 - 2.4	ND	ND	NC	20
Co - COBALT		ND	21	20	10	8.0 - 12	ND	ND	NC	20
Cr - CHROMIUM		ND	19	20	9.9	8.0 - 12	0.567	0.535	5.8	20
Cu - COPPER		ND	19	20	9.9	8.0 - 12	ND	ND	NC	20
Mo - MOLYBDENUM		ND	21	20	10	8.0 - 12	ND	ND	NC	20
Ni - NICKEL		ND	20	20	10	8.0 - 12	0.787	0.826	4.8	20
Pb - LEAD *		ND	20	20	9.8	8.0 - 12	2.10	2.64	23	20
Sb - ANTIMONY		ND	20	20	9.6	8.0 - 12	ND	ND	NC	20
Se - SELENIUM		ND	4.0	4.0	2.0	1.6 - 2.4	ND	ND	NC	20
Tl - THALLIUM		ND	19	20	9.5	8.0 - 12	ND	ND	NC	20
V - VANADIUM		ND	20	20	9.6	8.0 - 12	0.906	0.869	4.2	20
Zn - ZINC		ND	21	20	10	8.0 - 12	16.3	17.6	7.1	20

NOTES: ND = NOT DETECTED NC = NOT CALCULATED

* %RPD for Pb in sample AV01585 & AV01585 duplicate exceeded control limit, possibly due to heterogeneity of the sample AV01585.

SAMPLE PREPARATION: 2/2/12
GUILAN SARTIPPOUR DATE

ANALYST: 2/2/12
GUILAN SARTIPPOUR DATE

APPROVED BY: 2/2/12
MU SAM DATE

REVIEWED BY: 2/2/12
MARIO VINOYA DATE

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY - LOS ANGELES
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 977-7928, (213) 482-9739

REQUESTER'S NAME: Greg Neal

DATE SAMPLES RECEIVED: 1/18/2012

SAMPLING LOCATION: WEI Mecca
62-150 Gene Welmos Ave.
Mecca CA

DATE SAMPLES PREPARED: 1/18-20/2012

DATE SAMPLES ANALYZED: 1/27/2012

METHOD(S): HML 910 WET (CALIFORNIA WASTE EXTRACTION TEST-STLC)
EPA 6010B ICP - AES

QC REPORT FOR MATRIX SPIKE(MS)/MATRIX SPIKE DUPLICATE(MSD) PERCENT RECOVERY

MATRIX SPIKE PERFORMED ON : AV01587 TYPE OF MATRIX : **SOIL**
TYPE OF SPIKE : ME0112MV 400/100/20

COMPOUND	AMOUNT OF ANALYTE IN SAMPLE	AMOUNT OF ANALYTE ADDED	MATRIX SPIKE		MATRIX SPIKE DUPLICATE		AVE % REC	CONTROL LIMITS FOR % REC	R % D BETWEEN MS/MSD	CONTROL LIMITS FOR RPD
			AMOUNT RECOVERED	%REC	AMOUNT RECOVERED	%REC				
	mg/L	mg/L	mg/L	%	mg/L	%	%	%	%	%
Ag - SILVER *	ND	10	0.159	1.6	4.21	42	22	70 - 130	185	20
As - ARSENIC	1.02	10	11.8	108	11.5	105	106	70 - 130	2.7	20
Ba - BARIUM	2.97	10	13.6	106	12.9	99	103	70 - 130	6.4	20
Be - BERYLLIUM	ND	2.0	2.14	107	1.95	97	102	70 - 130	9.4	20
Cd - CADMIUM	0.161	2.0	2.13	98	2.09	96	97	70 - 130	2.2	20
Co - COBALT	ND	10	9.26	93	9.02	90	91	70 - 130	2.6	20
Cr - CHROMIUM	1.25	10	11.6	104	11.0	97	100	70 - 130	6.6	20
Cu - COPPER	0.774	10	12.1	113	11.0	103	108	70 - 130	9.7	20
Mo - MOLYBDENUM	ND	10	9.77	98	9.52	95	96	70 - 130	2.6	20
Ni - NICKEL	1.31	10	10.1	88	9.98	87	87	70 - 130	1.6	20
Pb - LEAD	8.01	10	16.8	87	16.5	85	86	70 - 130	2.8	20
Sb - ANTIMONY	ND	10	10.1	101	9.850	99	100	70 - 130	2.5	20
Se - SELENIUM	ND	2.0	2.40	120	2.27	114	117	70 - 130	5.4	20
Tl - THALLIUM	ND	10	10.1	101	9.85	99	100	70 - 130	2.2	20
V - VANADIUM	1.57	10	12.2	107	11.2	97	102	70 - 130	9.8	20
Zn - ZINC *	40.8	10	45.0	41	44.6	37	39	70 - 130	10	20

NOTE: NC = NOT CALCULATED
* Ag & Zn had low recoveries in both MS & MSD and %RPD for Ag exceeded control limit. The low recoveries might be attributed to interferences. Further tests (Post Spike & Dilution Test) are required to verify matrix interferences.

SAMPLE PREPARATION: 2/2/12
GUILAN SARTIPPOUR DATE

ANALYST: 2/2/12
GUILAN SARTIPPOUR DATE

APPROVED BY: 2/2/12
MUI SAM DATE

REVIEWED BY: 2/2/12
MARIO VINOYA DATE

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY - LOS ANGELES
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 977-7928, (213) 482-9739

REQUESTER'S NAME: Greg Neal

DATE SAMPLES RECEIVED: 1/18/2012

SAMPLING LOCATION: WEI Mecca
62-150 Gene Welmos Ave.
Mecca CA

DATE SAMPLES PREPARED: 1/18-20/2012

DATE SAMPLES ANALYZED: 1/27/2012

METHOD(S): HML 910 WET (CALIFORNIA WASTE EXTRACTION TEST-STLC)
EPA 6010B ICP - AES

QC REPORT FOR MATRIX POST SPIKE/MATRIX POST SPIKE DUPLICATE PERCENT RECOVERY

MATRIX SPIKE PERFORMED ON : AV01587 TYPE OF MATRIX : **SOIL**
TYPE OF SPIKE : ME0112MV 400/100/20

Post Spike Data

COMPOUND	AMOUNT OF ANALYTE IN SAMPLE	AMOUNT OF ANALYTE ADDED	MATRIX SPIKE		MATRIX SPIKE DUPLICATE		AVE % REC	CONTROL LIMITS FOR % REC	%RPD BETWEEN MS/MSD	CONTROL LIMITS FOR RPD
			AMOUNT RECOVERED	%REC	AMOUNT RECOVERED	%REC				
	mg/L	mg/L	mg/L	%	mg/L	%	%	%	%	%
Ag - SILVER	ND	20	18.4	92	19.1	96	94	70 - 130	4.0	20
As - ARSENIC										20
Ba - BARIUM										20
Be - BERYLLIUM										20
Cd - CADMIUM										20
Co - COBALT										20
Cr - CHROMIUM										20
Cu - COPPER										20
Mo - MOLYBDENUM										20
Ni - NICKEL										20
Pb - LEAD										20
Sb - ANTIMONY										20
Se - SELENIUM										20
Tl - THALLIUM										20
V - VANADIUM										20
Zn - ZINC *	40.8	20	53.2	62	54.2	67	64	70 - 130	8.2	20

NOTE: NC = NOT CALCULATED
* Post spike test was performed for Ag & Zn. % RPD for post spike/post spike duplicate for Ag was within control limit.
* Post spike/post spike duplicate for Zn had low recoveries, but % RPD was within control limit. Further QC is required to evaluate matrix interference.

SAMPLE PREPARATION: 2/2/12
GUILAN SARTIPPOUR DATE

ANALYST: 2/2/12
GUILAN SARTIPPOUR DATE

APPROVED BY: 2/2/12
MUI SAM DATE

REVIEWED BY: 2/2/12
MARIO VINOYA DATE

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY - LOS ANGELES
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 977-7928, (213) 473-9739

REQUESTER'S NAME: Greg Neal

DATE SAMPLES RECEIVED: 1/18/2012

SAMPLING LOCATION: WEI Mecca
62-150 Gene Welmos Ave.
Mecca CA

DATE SAMPLES PREPARED: 1/18-20/2012

DATE SAMPLES ANALYZED: 1/24/2012

METHOD(S): HML 910 WET (CALIFORNIA WASTE EXTRACTION TEST-STLC)
EPA 6010B ICP - AES

METAL SCAN (TCLP) ANALYSIS

Serial Dilution Test

	COL. NO.		WEI-GL16-SW	WEI-GL16-SW							
SCL NO.			AV01587	AV01587x5 dilution		Control Limit					
ANALYTE	UNIT	mg/L	mg/L	mg/L	%RPD	%RPD					
		STLC LIMIT									
Ag - SILVER		*5.0*									
As - ARSENIC		*5.0*									
Ba - BARIUM		*100*									
Be - BERYLLIUM		*0.75*									
Cd - CADMIUM		*1.0*									
Co - COBALT		*80*									
Cr - CHROMIUM		*5.0*									
Cu - COPPER		*25*									
Mo - MOLYBDENUM		*350*									
Ni - NICKEL		*20*									
Pb - LEAD		*5.0*									
Sb - ANTIMONY		*15*									
Se - SELENIUM		*1.0*									
Tl - THALLIUM		*7.0*									
V - VANADIUM		*24*									
Zn - ZINC *		*250*	40.4	41.6	3.0	1-10					

NOTES: < = BELOW DETECTION LIMIT OF METHOD

* %RPD in dilution test for Zn is within control limit, confirming matrix interference for Zn. Data for these two runs were reported from run on 1/24/2012 using minimum calibration standards verified by proper QC.

SAMPLE PREPARATION: 2/2/12
GUILAN SARTIPPOUR DATE

ANALYST: 2/2/12
GUILAN SARTIPPOUR DATE

APPROVED BY: 2/12/12
MUI SAM DATE

REVIEWED BY: 2/2/12
MARIO VINOYA DATE

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY - LOS ANGELES
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 977-7928; (213)482-9739

CASE NARRATIVE

1. THIS ANALYTICAL REPORT PACKAGE WAS PREPARED FOR ECL SAMPLE(S) AV01585-AV01591

   SAMPLE AUTHORIZATION NO. : 11SC0085

   SAMPLES INCLUDED IN THIS ANALYTICAL BATCH ARE: AV01580 - AV01582 , AV01587-AV01590

2. SAMPLES WERE COLLECTED ON 12/14-16/11 AT WEI Mecca
   62-150 Gene Welmos Ave.
   Mecca Ca

3. COLLECTOR'S NAME ON THE SAMPLE ANALYSIS REQUEST FORM IS Greg Neal

4. SAMPLES WERE:

RECEIVED ON	12/19/2011	BY ENVIRONMENTAL CHEMISTRY LABORATORY-L.A.		
DIGESTED ON	1/9-10/2012	BY EPA METHOD	1311	TOXICITY CHARACTERISTIC LEACHING PROCEDURE
ANALYZED ON	1/12/2012	BY EPA METHOD	6010B	ICP - AES

   DATA PACKAGE WAS COMPLETED ON 1/17/2012

5. QC PARAMETERS WERE WITHIN CONTROL LIMITS, EXCEPT FOR RECOVERIES IN MATRIX SPIKE/ MATRIX SPIKE DUPLICATES FOR SOME ANALYTES AS NOTED IN THE CORRESPONDING QC REPORT.
6. INSTRUMENT INITIAL CALIBRATION & CONTINUING CALIBRATION CRITERIA WERE MET.
7. SAMPLE HOLDING TIME WAS MET.
8. SAMPLES ID AV01587-AV01588 WERE EXTRACTED USING EXRACTION FLUID #1 & SAMPLES ID AV01589-AV01590 IN THIS BATCH WERE EXTRACTED USING EXRACTION FLUID #2.
9. SAMPLE NO. AV01585-AV01586 & AV01590 WERE NOT ANALYZED BY TCLP BECAUSE IT WAS NOT NEEDED.

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY - LOS ANGELES
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 977-7928, (213) 482-9739

INDEX

EPA 1311 FOR SAMPLE (S) AV01585-AV01591

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State of California
California Environmental Protection Agency

Department of Toxic Substances Control
Environmental Chemistry Laboratory

3

ENVIRONMENTAL CHEMISTRY LABORATORY SAMPLE ANALYSIS REQUEST

1. Authorization Number: 11SC0085

ECL No.: AV01585 To AV01591

2. Page 1 of 1

3. Requestor: (to Receive Results) a. Name: Greg Neal
b. Address: 5796 Corporate Avenue (street number)
Cypress Ca 90630 (city, state, zip)
c. Phone: 7144845455 (area code first) d. Fax: 7144845411 (area code first)
e. Email: gneal@dtsc.ca.gov @dtsc.ca.gov

4. Project Name (if applicable): WEI Mecca

5. TAT Level: 2

6. Sampling Information: a. Date/Time Sampled: 12/14-12/16/11 (mm/dd/yy) (#:## AM/PM)
b. Location: EPA ID No.
Site: WEI Mecca
Address: 62-150 Gene Welmas Ave (street number)
Mecca Ca (city, state, zip)
GPS-Lat: GPS-Long:
GPS-Alt: GPS-Depth:

7. Codes (select from drop down list or fill in if applicable)
a. Unit
b. INDEX
c. PCA 36195
d. MPC 962
e. SITE 551115-48
f. County Riverside

8. Samples:

	a. ID	b. Collector's No.	c. ECL No.	d. Matrix	e. Container Size	f. Number of containers	g. Preservative / Field Information
1	WEI-GL08-NE		AV01585	Soil	3-8oz 2-4oz 3-VOA	8 12/14 10:04	ICE Methanol Sodium Bisulfate
2	WEI-GL07-NW		AV01586	Soil	3-8oz 2-4oz 3-VOA	12/14 13:24 16	ICE Methanol Sodium Bisulfate
~~3~~	~~WEI-GL07-NW~~		~~EMA~~	~~Soil~~	~~3-8oz 2-4oz 3-VOA~~	~~8~~	~~ICE Methanol Sodium Bisulfate~~
4	WEI-GL16-SW		AV01587	soil	3-8oz 2-4oz 3 VOA	8 12/15 9:04	ICE Methanol Sodium Bisulfate
5	WEI-GL20-W		AV01588	soil	3-8oz 2-4oz 3 VOA	8 12/15 3:24	ICE Methanol Sodium Bisulfate
6	WEI-UT03		AV01589	soil	3-8oz 2-4oz 3VOA	8 12/14 9:13	ICE Methanol Sodium Bisulfate
7	WEI-UT06		AV01590	soil	3-8oz 2-4oz 3VOA	8 12/14 11:07	ICE Methanol Sodium Bisulfate
8	WEI-Blank		AV01591	liquid	3VOA	3	Methanol Sodium Bisulfate
9							

9. Analysis Requested: Enter sample IDs and sample ID ranges separated by commas: For example, 1-3, 5-7, 9

a. Inorganic Analysis	Sample(s) ID	b. Organic Analysis	Sample(s) ID
· Cyanide	1,2,4,5,6,7,	· Chlorinated Pesticides	1,2,4,5,6,7
· Mercury	1,2,4,5,6,7,	· Organo phosphate Pesticides	1,2,4,5,6,7
· Metals	1,2,4,5,6,7	· VOCs	1,2,4,5,6,7,8
· pH	1,2,4,5,6,7	· PCBs	1,2,4,5,6,7
· Hexavalent Chromium	1,2,4,5,6,7	· SVOCs	1,2,4,5,6,7
		· PAHs	1,2,4,5,6,7
		· Dioxins/furans	1,2,4,5,6,7
Other Metals:			
c. TCLP Analysis		**d. Other Analysis**	
Metals only if necessary	1,2,4,5,6,7		
Mercury only if necessary	1,2,4,5,6,7		

FIELD

e. Comments for Multiphasic Samples/Analysis Priority:

10. Analysis Objective: Human Health Risk

11. Detection Limit Requirements: (Check ECL User's Manual to assure default DL is sufficient.)
Lowest Achievable

12. Supplemental Requests: Enter sample IDs as described in Item 9

Desired Analysis	Sample(s) ID

Initials
Date

ECL

13. ECL Lab Remarks:
Cr+6, ms, pH, PCB, VOC, OCPs
TCLP, ms

LAB

14. Chain of Custody:

	Name	Title	Signature	Inclusive Dates of Custody		
a.	Greg Neal	Geologist	Greg Neal	12/14/11	to	12/16/11
b.	Alfredo Zamorria	Geologist	[illegible]	12/16/11	to	12/19/11
c.	Greg Neal	Geologist	Greg Neal	12/19/11	to	12/19/11
d.	Barbara Bush	Lab Tech	Barbara Bush	12/19/11	to	/
e.					to	
f.					to	
g.					to	

COC

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY - LOS ANGELES
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 977-7928, (213) 473-9739

REQUESTER: Greg Neal

DATE SAMPLES RECEIVED: 12/19/2011

SAMPLE LOCATION: WEI Mecca
62-150 Gene Welmos Ave.
Mecca Ca

DATE SAMPLES PREPARED: 1/9-10/2012

DATE SAMPLES ANALYZED: 1/12/2012

METHOD(S): EPA 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE
EPA 6010B ICP-AES

METAL SCAN (TCLP) ANALYSIS

	SCL NO.		AV01587	AV01588	AV01589	AV01590					
	COL. NO.		WEI-GL16-SW	WEI-GL70-W	WEI-UT03	WEI-UT06					
	MATRIX		SOIL	SOIL	SOIL	SOIL					
ANALYTE	UNIT	mg/L	mg/L	mg/L	mg/L	mg/L					
		TCLP -LIMIT									
Ag - SILVER		5	<0.2	<0.2	<0.2	<0.2					
As - ARSENIC		5	<0.2	<0.2	<0.2	<0.2					
Ba - BARIUM		100	0.30	0.29	0.93	1.1					
Cd - CADMIUM		1	<0.04	<0.04	<0.04	<0.04					
Cr - CHROMIUM		5	<0.2	<0.2	<0.2	<0.2					
Pb - LEAD		5	<0.2	<0.2	<0.2	<0.2					
Se - SELENIUM		1	<0.04	<0.04	<0.04	<0.04					

NOTES: < = BELOW DETECTION LIMIT OF METHOD

SAMPLE PREPARATION: 1/17/12
GUILAN SARTIPPOUR DATE

ANALYST: 1/17/12
GUILAN SARTIPPOUR DATE

APPROVED BY: 1/17/20
K. C. TING DATE

REVIEWED BY: 1/17/12
MARIO VINOYA DATE

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY - LOS ANGELES
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 977-7928, (213) 473-9739

REQUESTER: Greg Neal

DATE SAMPLES RECEIVED: 12/19/2011

SAMPLE LOCATION: WEI Mecca
62-150 Gene Welmos Ave.
Mecca Ca

DATE SAMPLES PREPARED: 1/9-10/2012

DATE SAMPLES ANALYZED: 1/12/2012

METHOD(S): EPA 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE
EPA 6010B ICP-AES

QC REPORT FOR METHODS BLANKS, CVS, LCS, AND SAMPLE DUPLICATE for SOIL

		METHOD BLANK	VERIFICATION STANDARD		LABORATORY CONTROL SAMPLE		SAMPLE DUPLICATE AV01589			
							A	B		
ANALYTE	UNITS	mg/L	FOUND mg/L	KNOWN mg/L	mg/kg	CONTROL LIMITS	mg/L	mg/L	RPD %	CONTROL LIMITS
Ag - SILVER		<0.20	3.9	4.0	4.4	4.0 - 6.0	ND	ND	NC	20
As - ARSENIC		<0.20	3.9	4.0	4.8	4.0 - 6.0	ND	ND	NC	20
Ba - BARIUM		<0.20	3.8	4.0	5.0	4.0 - 6.0	0.933	1.09	16	20
Cd - CADMIUM		<0.04	0.80	0.80	1.0	0.8 - 1.2	ND	ND	NC	20
Cr - CHROMIUM		<0.20	3.9	4.0	5.0	4.0 - 6.0	ND	ND	NC	20
Pb - LEAD		<0.20	4.0	4.0	5.1	4.0 - 6.0	ND	ND	NC	20
Se - SELENIUM		<0.04	0.75	0.80	1.0	0.8 - 1.2	ND	ND	NC	20

NOTES: < = BELOW DETECTION LIMIT OF METHOD
NC = NOT CALCULATED ND = NOT DETECTED

SAMPLE PREPARATION: Guilan Sartippour 1/17/12
GUILAN SARTIPPOUR DATE

ANALYST: Guilan Sartippour 1/17/12
GUILAN SARTIPPOUR DATE

APPROVED BY: K. C. Ting 1/17/2012
K. C. TING DATE

REVIEWED BY: 1/17/12
MARIO VINOYA DATE

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY - LOS ANGELES
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 977-7928, (213) 473-9739

REQUESTER: Greg Neal

DATE SAMPLES RECEIVED: 12/19/2011

SAMPLE LOCATION: WEI Mecca
62-150 Gene Welmos Ave.
Mecca Ca

DATE SAMPLES PREPARED: 1/9-10/2012

DATE SAMPLES ANALYZED: 1/12/2012

METHOD(S): EPA 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE
EPA 6010B ICP-AES

QC REPORT FOR MATRIX SPIKE(MS)/MATRIX SPIKE DUPLICATE(MSD) PERCENT RECOVERY

MATRIX SPIKE PERFORMED ON : AV01590 TYPE OF MATRIX : **SOIL**
TYPE OF SPIKE : ME1111MV 400/100/20

COMPOUND	AMOUNT OF ANALYTE IN SAMPLE	AMOUNT OF ANALYTE ADDED	MATRIX SPIKE		MATRIX SPIKE DUPLICATE		AVE % REC	CONTROL LIMITS FOR % REC	R % D BETWEEN MS/MSD	CONTROL LIMITS FOR RPD
			AMOUNT RECOVERED	%REC	AMOUNT RECOVERED	%REC				
	mg/L	mg/L	mg/L	%	mg/L	%	%	%	%	%
Ag - SILVER *	<0.2	5.0	0.786	16	0.778	16	16	70 - 130	1.0	20
As - ARSENIC	<0.2	5.0	5.18	104	5.14	103	103	70 - 130	0.78	20
Ba - BARIUM	1.15	5.0	6.04	98	6.02	97	98	70 - 130	0.41	20
Cd - CADMIUM	<0.04	1.0	1.09	109	1.05	105	107	70 - 130	3.7	20
Cr - CHROMIUM	<0.2	5.0	5.39	108	5.33	107	107	70 - 130	1.1	20
Pb - LEAD	<0.2	5.0	5.25	105	5.18	104	104	70 - 130	1.2	20
Se - SELENIUM	<0.2	1.0	1.02	102	1.01	101	102	70 - 130	1.0	20

NOTE:
* AVE % REC for Ag is outside control limit due to interferences. Post spike test was performed and confirmed the interferences.

SAMPLE PREPARATION: Guilan Sartippour 1/17/12
GUILAN SARTIPPOUR DATE

ANALYST: Guilan Sartippour 1/17/12
GUILAN SARTIPPOUR DATE

APPROVED BY: K. C. Ting 1/17/2012
K. C. TING DATE

REVIEWED BY: 1/17/12

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY - LOS ANGELES
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 977-7928, (213) 473-9739

REQUESTER: Greg Neal

DATE SAMPLES RECEIVED: 12/19/2011

SAMPLE LOCATION: WEI Mecca
62-150 Gene Welmos Ave.
Mecca Ca

DATE SAMPLES PREPARED: 1/9-10/2012

DATE SAMPLES ANALYZED: 1/12/2012

METHOD(S): EPA 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE
EPA 6010B ICP-AES

QC REPORT FOR MATRIX SPIKE(MS)/MATRIX SPIKE DUPLICATE(MSD) PERCENT RECOVERY

MATRIX SPIKE PERFORMED ON : AV01590

TYPE OF MATRIX : **SOIL**

TYPE OF SPIKE : ME1111MV 400/100/20

Post Spike Data

COMPOUND	AMOUNT OF ANALYTE IN SAMPLE	AMOUNT OF ANALYTE ADDED	MATRIX SPIKE		MATRIX SPIKE DUPLICATE		AVE % REC	CONTROL LIMITS FOR % REC	R % D BETWEEN MS/MSD	CONTROL LIMITS FOR RPD
			AMOUNT RECOVERED	%REC	AMOUNT RECOVERED	%REC				
	mg/L	mg/L	mg/L	%	mg/L	%	%	%	%	%
Ag - SILVER	<0.2	5.0	4.55	91	4.56	91	91	70 - 130	0.31	20
As - ARSENIC	<0.2	5.0	5.03	101	5.07	101	101	70 - 130	0.77	20
Ba - BARIUM	1.15	5.0	5.91	95	6.02	97	96	70 - 130	2.1	20
Cd - CADMIUM	<0.04	1.00	1.03	103	1.04	104	103	70 - 130	1.1	20
Cr - CHROMIUM	<0.2	5.0	5.13	103	5.18	104	103	70 - 130	1.0	20
Pb - LEAD	<0.2	5.0	5.07	101	5.11	102	102	70 - 130	0.71	20
Se - SELENIUM	<0.2	1.00	0.987	99	1.02	102	100	70 - 130	2.8	20

NOTE:

SAMPLE PREPARATION
1/17/12
GUILAN SARTIPPOUR DATE

ANALYST
1/17/12
GUILAN SARTIPPOUR DATE

APPROVED BY:
1/17/2012
K. C. TING DATE

REVIEWED BY:
1/17/12
MARIO VINOYA DATE

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY - Los Angeles
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE: (213) 977-7929 (213) 977-7361

CASE NARRATIVE

1. THIS ANALYTICAL REPORT PACKAGE WAS PREPARED FOR SCL SAMPLE(S) AV01585-AV01590

   SAMPLE AUTHORIZATION NO: 11SC0085

   SAMPLE(S) INCLUDED IN THIS ANALYTICAL BATCH: AV01585-AV01590

2. SAMPLE(S) WERE COLLECTED ON 12/14/2011 - 12/16/2011 AT WEI Mecca
   62-150 Gene Welmos Ave. Mecca CA

3. COLLECTOR'S NAME ON THE SAMPLE ANALYSIS REQUEST FORM IS Greg Neal

4. SAMPLE(S) WERE:

RECEIVED ON	12/19/2011	BY ENVIRONMENTAL CHEMISTRY LABORATORY-LOS ANGELES		
EXTRACTED ON	12/22/11-12/23/11	BY EPA METHOD	3540C	SOXHLET EXTRACTION
CLEANUP	12/26/11-12/27/11	BY EPA METHOD	3620B	FLORISIL COLUMN CLEANUP
ANALYZED ON	12/30/11-1/3/12	BY EPA METHOD	8082	GC/ECD FOR PCBs ANALYSIS

   DATA PACKAGE WAS COMPLETED ON 1/19/12

5. DURING THE COURSE OF THESE ANALYSES, NO PROBLEM WAS ENCOUNTERED.

6. QC PARAMETERS/INDICATORS WERE MET.

7. INSTRUMENT INITIAL CALIBRATION & CONTINUING CALIBRATION CRITERIA WERE MET.

8. SAMPLE HOLDING TIME WAS MET.

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY - Los Angeles
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 977-7929 (213) 977-7361

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EPA 8082 FOR SAMPLE(S) AV01585-AV01590

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TOTAL PAGES = 8

State of California
California Environmental Protection Agency

Department of Toxic Substances Control
Environmental Chemistry Laboratory

3

ENVIRONMENTAL CHEMISTRY LABORATORY SAMPLE ANALYSIS REQUEST	1. Authorization Number 11SC0085	ECL No.: AV01585 To AV01591	2. Page 1 of 1

3. Requestor: (to Receive Results) a. Name: Greg Neal
b. Address: 5796 Corporate Avenue (street number)
Cypress Ca 90630 (city, state, zip)
c. Phone: 7144845455 (area code first) d. Fax: 7144845411 (area code first)
e. Email: gneal@dtsc.ca.gov @dtsc.ca.gov

4. Project Name (if applicable): WEI Mecca

5. TAT Level: 2

6. Sampling Information: a. Date/Time Sampled: 12/14-12/16/11 (mm/dd/yy) (#:## AM/PM)
b. Location: EPA ID No.
Site: WEI Mecca
Address: 62-150 Gene Welmas Ave (street number)
Mecca Ca (city, state, zip)
GPS-Lat: GPS-Long:
GPS-Alt: GPS-Depth:

7. Codes (select from drop down list or fill in if applicable)
a. Unit
b. INDEX
c. PCA 36195
d. MPC 962
e. SITE 551115-48
f. County Riverside

8. Samples:

	a. ID	b. Collector's No.	c. ECL No.	d. Matrix	e. Container Size	f. Number of containers	g. Preservative / Field Information
1	WEI-GL03-NE		AV01585	Soil	3-8oz 2-4oz 3-VOA	8 12/14 10:04	ICE Methanol Sodium Bisulfate
2	WEI-GL07-NW		AV01586	Soil	3-8oz 2-4oz 3-VOA	8 12/14 13:24	ICE Methanol Sodium Bisulfate
~~3~~	~~WEI-GL07-NW~~		~~AV~~	~~Soil~~	~~3-8oz 2-4oz 3-VOA~~	~~8~~	~~ICE Methanol Sodium Bisulf~~
4	WEI-GL16-SW		AV01587	soil	3-8oz 2-4oz 3 VOA	8 12/15 9:04	ICE Methanol Sodium Bisulfate
5	WEI-GL20-W		AV01588	Soil	3-8oz 2-4oz 3 VOA	8 12/15 3:24	ICE Methanol Sodium Bisulfate
6	WEI-UT03		AV01589	Soil	3-8oz 2-4oz 3 VOA	8 12/16 0:28	ICE Methanol Sodium Bisulfate
7	WEI-UT06		AV01590	Soil	3-8oz 2-4oz 3 VOA	8 12/16 11:07	ICE Methanol Sodium Bisulfate
8	WEI-Blank		AV01591	liquid	3 VOA	3	Methanol Sodium Bisulfate
9							

9. Analysis Requested: Enter sample IDs and sample ID ranges separated by commas: For example, 1-3, 5-7, 9

a. Inorganic Analysis	Sample(s) ID	b. Organic Analysis	Sample(s) ID
· Cyanide	1,2,4,5,6,7,8	· Chlorinated Pesticides	1,2,4,5,6,7
· Mercury	1,2,4,5,6,7,	· Organophosphate Pesticides	1,2,4,5,6,7
· Metals	1,2,4,5,6,7	· VOCs	1,2,4,5,6,7,8
· pH	1,2,4,5,6,7	· PCBs	1,2,4,5,6,7
· Hexavalent Chromium	1,2,4,5,6,7	· SVOCs	1,2,4,5,6,7
		· PAHs	1,2,4,5,6,7
		· Dioxins/furans	1,2,4,5,6,7
Other Metals:			

c. TCLP Analysis		d. Other Analysis
Metals only if necessary	1,2,4,5,6,7	
Mercury only if necessary	1,2,4,5,6,7	

e. Comments for Multiphasic Samples/Analysis Priority:

10. Analysis Objective: Human Health Risk

11. Detection Limit Requirements: (Check ECL User's Manual to assure default DL is sufficient.)
Lowest Achievable

12. Supplemental Requests: Enter sample IDs as described in Item 9

Desired Analysis	Sample(s) ID

Initials
Date

ECL

13. ECL Lab Remarks:
Cr+6, TMS, pH, PCB, VOC, OCP's TCLP-MS

LAB

14. Chain of Custody:

	Name	Title	Signature	Inclusive Dates of Custody	
a.	Greg Neal	Geologist	Greg Neal	12/14/11	to 12/16/11
b.	Alfredo Zuhoria	Geologist	[illegible]	12/16/11	to 12/19/11
c.	Greg Neal	Geologist	Greg Neal	12/19/11	to 12/19/11
d.	Barbara Bush	Lab Tech	Barbara Bush	12/19/11	to /
e.					to
f.					to
g.					to

COC

FIELD

ECL02 (REV 01/11) Make Photocopies for Your File

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY-LOS ANGELES
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE: (213) 977-7929 OR (213) 977-7361

REQUESTER: Greg Neal

SCL NO. AV01585-AV01590

SAMPLE LOCATION: WEI Mecca
62-150 Gene Welmos Ave
Mecca CA

DATE REPORTED: 1/19/12

DATE RECEIVED: 12/19/11

METHOD(S): EPA METHOD 8082 GC/ECD FOR PCBs ANALYSIS
EPA METHOD 3540C SOXHLET EXTRACTION
EPA METHOD 3620B FLORISIL COLUMN CLEANUP

PCBs ANALYSIS

						QUANTITATION LIMIT			
	SCL NO.	AV01585	AV01586	AV01587	AV01588	AV01585	AV01586	AV01587	AV01588
	COL. NO.	WEI-GL03-NE	WEI-GL07-NW	WEI-GL16-SW	WEI GL20-W	WEI-GL03-NE	WEI-GL07-NW	WEI-GL16-SW	WEI GL20-W
	MATRIX	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
ANALYTE	UNIT	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Aroclor 1016		ND	ND	ND	ND	1.25	1.25	1.25	1.25
Aroclor 1221		ND	ND	ND	ND	1.25	1.25	1.25	1.25
Aroclor 1232		ND	ND	ND	ND	1.25	1.25	1.25	1.25
Aroclor 1242		ND	ND	ND	ND	1.25	1.25	1.25	1.25
Aroclor 1248		ND	ND	ND	ND	1.25	1.25	1.25	1.25
Aroclor 1254		ND	ND	ND	ND	1.25	1.25	1.25	1.25
Aroclor 1260		ND	ND	ND	ND	1.25	1.25	1.25	1.25

NOTES: ND = NOT DETECTED
QUANTITATION LIMIT (QL) = (CONCENTRATION OF LOWEST CALIBRATION STANDARD) X (DILUTION FACTOR)

SAMPLE PREPARATION: Hae Lee 1/19/12
HAE LEE DATE

ANALYST: Hae Lee 1/19/12
HAE LEE

REVIEWED BY: Eddie Lui 1/19/12
EDDIE LUI DATE

APPROVED BY: K. C. Ting 1/19/2012
KEH-CHUH TING DATE
BRANCH CHIEF

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY-LOS ANGELES
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE: (213) 977-7929 OR (213) 977-7361

REQUESTER: Greg Neal

SCL NO. AV01585-AV01590

SAMPLE LOCATION: WEI Mecca
62-150 Gene Welmos Ave
Mecca CA

DATE REPORTED: 1/19/12

DATE RECEIVED: 12/19/11

METHOD(S): EPA METHOD 8082 GC/ECD FOR PCBs ANALYSIS
EPA METHOD 3540C SOXHLET EXTRACTION
EPA METHOD 3620B FLORISIL COLUMN CLEANUP

PCBs ANALYSIS

						QUANTITATION LIMIT			
	SCL NO.	AV01589	AV01590			AV01589	AV01590		
	COL. NO.	WEI-UT03	WEI-UT06			WEI-UT03	WEI-UT06		
	MATRIX	Soil	Soil			Soil	Soil		
ANALYTE	UNIT	mg/kg	mg/kg			mg/kg	mg/kg		
Aroclor 1016		ND	ND			1.25	1.25		
Aroclor 1221		ND	ND			1.25	1.25		
Aroclor 1232		ND	ND			1.25	1.25		
Aroclor 1242		ND	ND			1.25	1.25		
Aroclor 1248		ND	ND			1.25	1.25		
Aroclor 1254		ND	ND			1.25	1.25		
Aroclor 1260		ND	ND			1.25	1.25		

NOTES: ND = NOT DETECTED
QUANTITATION LIMIT (QL) = (CONCENTRATION OF LOWEST CALIBRATION STANDARD) X (DILUTION FACTOR)

SAMPLE PREPARATION: Hae Lee 1/19/12
HAE LEE DATE

ANALYST: Hae Lee 1/19/12
HAE LEE

REVIEWED BY: Eddie Lui 1/19/12
EDDIE LUI DATE

APPROVED BY: K. C. Ting 1/19/2012
KEH-CHUH TING DATE
BRANCH CHIEF

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY - LOS ANGELES
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE: (213) 977-7929 (213) 977-7361

REQUESTER'S NAME: Greg Neal

SAMPLING LOCATION: WEI Mecca
62-150 Gene Welmos Ave
Mecca CA

DATE SAMPLE RECEIVED: 12/19/11

DATE SAMPLE PREPARED: 12/22/11-12/27/11

DATE SAMPLE ANALYZED: 12/30/11-1/03/12

ANALYTICAL PROCEDURES USED:
EPA METHOD 8082 GC/ECD FOR PCBs ANALYSIS
EPA METHOD 3540C SOXHLET EXTRACTION
EPA METHOD 3620B FLORISIL COLUMN CLEANUP

QC REPORT FOR

A: METHOD BLANK
B: METHOD STANDARD RECOVERY
C: LABORATORY CONTROL SAMPLE
D: SAMPLE DUPLICATE ANALYSIS

	A	B		C	
	METHOD BLANK	METHOD STANDARD		LABORATORY CONTROL SAMPLE	
		RECOVERY	CONTROL LIMIT	FOUND	CONTROL LIMIT
COMPOUND	mg/kg	%	%	mg/kg	mg/kg
Aroclor 1016	<0.50	113	70-130	-	-
Aroclor 1221	<0.50				
Aroclor 1232	<0.50				
Aroclor 1242	<0.50				
Aroclor 1248	<0.50				
Aroclor 1254	<0.50				
Aroclor 1260	<0.50	77.8	70-130	-	-

D			
SAMPLE DUPLICATE ANALYSIS			
PERFORMED ON : SCL NO. AV01585			
MATRIX : Soil			
	RUN 1	RUN 2	RPD
COMPOUND	mg/kg	mg/kg	%
Aroclor 1016	ND	ND	-
Aroclor 1260	ND	ND	-
CONTROL LIMIT			< 20

NOTES: (-) = NO DATA
ND = NOT DETECTED

SAMPLE PREPARATION: Hae Lee 1/19/12
HAE LEE DATE

ANALYST: Hae Lee 1/19/12
HAE LEE DATE

REVIEWED BY: Eddie Lui 1/19/12
EDDIE LUI DATE

APPROVED BY: K. C. Ting 1/19/2012
KEH-CHUH TING DATE
BRANCH CHIEF

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY - LOS ANGELES
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE: (213) 977-7929 (213) 977-7361

REQUESTER'S NAME: Greg Neal

DATE SAMPLE RECEIVED: 12/19/11

SAMPLING LOCATION: WEI Mecca
62-150 Gene Welmos Ave
Mecca CA

DATE SAMPLE PREPARED: 12/22/11-12/27/11

DATE SAMPLE ANALYZED: 12/30/11-01/03/12

METHODS: EPA METHOD 8082 GC/ECD FOR PCBs ANALYSIS
EPA METHOD 3540C SOXHLET EXTRACTION
EPA METHOD 3620B FLORISIL COLUMN CLEANUP

PAGE 1 OF 1

QC REPORT FOR SURROGATE SPIKE % RECOVERY

QC SAMPLES\ SAMPLE NO:	2,4,5,6-TETRACHLORO-M-XYLENE			DECACHLORO-BIPHENYL		
	ADDED	RECOVERED		ADDED	RECOVERED	
	µg/kg	µg/kg	%REC	µg/kg	µg/kg	%REC
MBL	160	172	107	640	718	112
MSR	160	202	126	640	760	119
AV01585	160	142	89.1	640	653	102
AV01585 dup	160	115	72.0	640	650	102
AV01586	160	111	69.7	640	659	103
AV01587	160	118	73.6	640	691	108
AV01588	160	141	87.9	640	711	111
AV01589	160	147	92.1	640	663	104
AV01590	160	132	82.6	640	561	87.6
AV01585 sp1	4000	4690	117	16000	15400	96.0
AV01585 sp2	4000	4140	104	16000	15900	99.5
CONTROL LIMIT FOR % REC	70 - 130			70 - 130		

SAMPLE PREPARATION: Hae Lee 1/19/12
HAE LEE DATE

ANALYST: Hae Lee 1/19/12
HAE LEE DATE

REVIEWED BY: eddie Lui 1/19/12
EDDIE LUI DATE

APPROVED BY: K. C. Ting 1/19/2012
KEH-CHUH TING DATE
BRANCH CHIEF

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY - LOS ANGELES
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 977-7929 (213) 977-7361

REQUESTER'S NAME: Greg Neal

DATE SAMPLE RECEIVED: 12/19/11

SAMPLING LOCATION: WEI Mecca
62-150 Gene Welmos Ave
Mecca CA

DATE SAMPLE PREPARED: 12/22/11-12/27/11

DATE SAMPLE ANALYZED: 12/30/11-01/03/12

ANALYTICAL PROCEDURES USED:
EPA METHOD 8082 GC/ECD FOR PCBs ANALYSIS
EPA METHOD 3540C SOXHLET EXTRACTION
EPA METHOD 3620B FLORISIL COLUMN CLEANUP

QC REPORT FOR MATRIX SPIKE(MS)/MATRIX SPIKE DUPLICATE(MSD) PERCENT RECOVERY

MATRIX SPIKE PERFORMED ON AV01585
TYPE OF MATRIX SOLID
TYPE OF SPIKE Aroclor1016 & Aroclor 1260 MIX

COMPOUND	AMOUNT OF ANALYTE IN SAMPLE	AMOUNT OF ANALYTE ADDED	MATRIX SPIKE		MATRIX SPIKE DUPLICATE		AVE % REC	CONTROL LIMITS FOR % REC	R % D BETWEEN MS/MSD	CONTROL LIMITS FOR RPD
			AMOUNT RECOVERED	%REC	AMOUNT RECOVERED	%REC				
	mg/kg	mg/kg	mg/kg	%	mg/kg	%	%	%	%	%
Aroclor 1016	<1.25	30.0	25.5	85.1	29.9	99.5	92.3	70-130	15.6	20
Aroclor 1260	<1.25	30.0	26.7	89.1	27.9	92.8	85.6	70-130	4.10	20

NOTES:

SAMPLE PREPARATION: Hae Lee 1/19/12
HAE LEE DATE

ANALYST: ANALYST: Hae Lee 1/19/12
HAE LEE DATE

REVIE REVIEWED BY: Eddie Lui 1/19/12
EDDIE LUI DATE

APPROVED BY: K. C. Ting 1/19/2012
KEH-CHUH TING DATE
BRANCH CHIEF

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMICAL LABORATORY - LOS ANGELES
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 977-7929

CASE NARRATIVE

1. THIS ANALYTICAL REPORT PACKAGE WAS PREPARED FOR ECL SAMPLE(S) AV01585-AV01591

   SAMPLE AUTHORIZATION N0. : 11SC0085

   SAMPLES INCLUDED IN THIS ANALYTICAL BATCH AV01585-AV01590

2. SAMPLES WERE COLLECTED ON 12/14-16/11 AT WEI-MECCA

3. COLLECTOR'S NAME ON THE SAMPLE ANALYSIS REQUEST FORM IS GREG NEAL

4. SAMPLES WERE:

   RECEIVED ON 12/19/2011 BY ENVIRONMENTAL CHEMISTRY LABORATORY- L.A.

   ANALYZED ON 12/20/2011 BY EPA METHOD 9045C (SOIL AND WASTE pH)

   DATA PACKAGE WAS COMPLETED ON 12/20/2011

5. DURING THE COURSE OF THESE ANALYSES, NO PROBLEM WAS ENCOUNTERED.

6. QC PARAMETERS/INDICATORS WERE WITHIN CONTROL LIMITS.

7. INSTRUMENT INITIAL CALIBRATION & CONTINUING CALIBRATION CRITERIA WERE MET.

8. SAMPLE HOLDING TIME WAS MET.

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMICAL LABORATORY - LOS ANGELES
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 977-7929

INDEX

EPA 9045C FOR SAMPLE (S) AV01585-AV01590

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4.	LABORATORY ANALYTICAL REPORT (S)	4

TOTAL PAGES = 4

State of California
California Environmental Protection Agency

Department of Toxic Substances Control
Environmental Chemistry Laboratory

3

ENVIRONMENTAL CHEMISTRY LABORATORY SAMPLE ANALYSIS REQUEST

1. Authorization Number: 115C0085

ECL No.: AV01585 To AV01591

2. Page 1 of 1

3. Requestor: (to Receive Results) a. Name: Greg Neal
b. Address: 5796 Corporate Avenue (street number)
Cypress Ca 90630 (city, state, zip)
c. Phone: 7144845455 (area code first) d. Fax: 7144845411 (area code first)
e. Email: gneal@dtsc.ca.gov @dtsc.ca.gov

4. Project Name (if applicable): WEI Mecca

5. TAT Level: 2

6. Sampling Information: a. Date/Time Sampled: 12/14-12/16/11 (mm/dd/yy) (#:## AM/PM)
b. Location: EPA ID No.
Site: WEI Mecca
Address: 62-150 Gene Welmas Ave (street number)
Mecca Ca (city, state, zip)
GPS-Lat: GPS-Long:
GPS-Alt: GPS-Depth:

7. Codes (select from drop down list or fill in if applicable)
a. Unit
b. INDEX
c. PCA 36195
d. MPC 962
e. SITE 551115-48
f. County Riverside

8. Samples:

	a. ID	b. Collector's No.	c. ECL No.	d. Matrix	e. Container Size	f. Number of containers	g. Preservative / Field Information
1	WEI-GL03-NE		AV01585	Soil	3-8oz 2-4oz 3-VOA	8 12/14 10:04	ICE Methanol Sodium Bisulfate
2	WEI-GL07-NW		AV01586	Soil	3-8oz 4-4oz 3-VOA	12/14 13:24 16	ICE Methanol Sodium Bisulfate
~~3~~	~~WEI-GL07-NW DUP~~			~~Soil~~	~~3-8oz 2-4oz 3-VOA~~	~~8~~	~~ICE Methanol Sodium Bisulfate~~
4	WEI-GL16-SW		AV01587	soil	3-8oz 2-4oz 3 VOA	8 12/15 9:04	ICE Methanol Sodium Bisulfate
5	WEI-GL20-W		AV01588	soil	3-8oz 2-4oz 3 VOA	8 12/15 3:24	ICE Methanol Sodium Bisulfate
6	WEI-UT03		AV01589	soil	3-8oz 2-4oz 3VOA	8 12/14 01:25	ICE Methanol Sodium Bisulfate
7	WEI-UT06		AV01590	soil	3-8oz 2-4oz 3VOA	8 12/16 11:07	ICE Methanol Sodium Bisulfate
8	WEI-Blank		AV01591	liquid	3VOA	3	Methanol Sodium Bisulfate
9							

9. Analysis Requested: Enter sample IDs and sample ID ranges separated by commas: For example, 1-3, 5-7, 9

a. Inorganic Analysis	Sample(s) ID	b. Organic Analysis	Sample(s) ID
· Cyanide	1,2,4,5,6,7,8	· Chlorinated Pesticides	1,2,4,5,6,7
· Mercury	1,2,4,5,6,7	· Organophosphate Pesticides	1,2,4,5,6,7
· Metals	1,2,4,5,6,7	· VOCs	1,2,3,4,5,6,7,8
· pH	1,2,4,5,6,7	· PCBs	1,2,4,5,6,7
· Hexavalent Chromium	1,2,4,5,6,7	· SVOCs	1,2,4,5,6,7
		· PAHs	1,2,4,5,6,7
		· Dioxins/furans	1,2,4,5,6,7
Other Metals:			

c. TCLP Analysis		d. Other Analysis
Metals only if necessary	1,2,4,5,6,7	
Mercury Only if necessary	1,2,4,5,6,7	

e. Comments for Multiphasic Samples/Analysis Priority:

10. Analysis Objective: Human Health Risk

11. Detection Limit Requirements: (Check ECL User's Manual to assure default DL is sufficient.)
Lowest Achievable

12. Supplemental Requests: Enter sample IDs as described in Item 9

Desired Analysis	Sample(s) ID

Initials
Date

ECL

13. ECL Lab Remarks:
Cr+6, IMS, pH, PCB, VOC, OCPs
TCLP-MS

LAB

14. Chain of Custody:

	Name	Title	Signature	Inclusive Dates of Custody		
a.	Greg Neal	Geologist	Greg Neal	12/14/11	to	12/16/11
b.	Alfredo Zamora	Geologist	[illegible]	12/16/11	to	12/19/11
c.	Greg Neal	Geologist	Greg Neal	12/19/11	to	12/19/11
d.	Barbara Bush	Lab Tech	Barbara Bush	12/19/11	to	/
e.					to	
f.					to	
g.					to	

COC

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMICAL LABORATORY- LOS ANGELES
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 977-7929

REQUESTER: GREG NEAL

SCL NO.: AV01585-AV01590

SAMPLE LOCATION: WEI-MECCA
62-150 GENE WELMOS AVE.
MECCA, CA

DATE REPORTED: 12/20/2011

METHOD(S): EPA 9045C (SOIL AND WASTE pH)

pH ANALYSIS

	SCL NO.	AV01585	AV01586	AV01587	AV01588	AV01589	AV01590
	COL. NO.	WEI-GL03-NE	WEI-GL07-NW	WEI-GL16-SW	WEI-GL20-W	WEI-UT03	WEI-UT06
	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
pH at	**25.0 ° C**	9.21	8.22	9.28	8.76	7.78	7.66

ANALYST:

Barbara Bush 12/20/11

BARBARA BUSH DATE

REVIEWED BY:

Yue-Dong Men 12/23/11

YUE-DONG MEN DATE

APPROVED BY:

K. C. Ting 12/27/2011

KEH-CHUH TING, BRANCH CHIEF DATE

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY - LOS ANGELES
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 977-7929

CASE NARRATIVE

1. THIS ANALYTICAL REPORT PACKAGE WAS PREPARED FOR ECL SAMPLES: AV01585 TO AV01591

   SAMPLE AUTHORIZATION NO.: 11SC0085

   SAMPLES INCLUDED IN THIS ANALYTICAL BATCH: AV01585, AV01586, AV01587, AV01588, AV01589, AV01590 & AV01591

2. SAMPLES WERE COLLECTED ON 12/14/2011 - 12/16/2011 AT WEI MECCA IN MECCA CALIFORNIA

3. COLLECTOR'S NAME ON THE SAMPLE ANALYSIS REQUEST FORM IS GREG NEAL

4. SAMPLES WERE:

   RECEIVED ON 12/19/2011 BY ENVIRONMENTAL CHEMISTRY LABORATORY-LOS ANGELES

   EXTRACTED AND ANALYZED ON 12/21 AND 12/22/2011 BY EPA METHOD 8260B VOLATILE ORGANIC COMPOUNDS BY GC/MS
   EPA 5035 CLOSED SYSTEM PURGE & TRAP

   DATA PACKAGE WAS COMPLETED ON 1/4/2012

5. THERE WERE SO MUCH TAPE ON THE SAMPLE VIALS THAT COVERED MANY VIALS COMPLETELY ESPECIALLY THE METHANOL ONES. SINCE IT WAS DIFFICULT TO SEE WHERE THE METHANOL IS, SEVERAL TIMES THE SOIL PARTICULATES GOT PICKED UP AND CLOGGED UP THE SYRINGE. ALSO, THERE WAS NO STIR BAR IN THE SODIUM BISULFITE VIALS, THE SAMPLE VIALS NEEDED TO BE OPEN IN ORDER TO ADD THE STIR BAR. DURING THE OPENING OF THE VIALS, SOME OF THE SAMPLES (AV01588, AV01589) HAD PRESSURE INSIDE THE VIALS AND WHEN THE VIALS WERE OPENED, THE PRESSURE FORCED SOME SODIUM BISULFITE SOLUTION OUT. IN THE CASE OF SAMPLE AV01589, AFTER ADDING THE STIR BAR, THERE WERE TRAP SOIL IN THE VIAL CAP THAT CAUSED THE LOST OF 90% THE IS/SURR AND THE SAMPLE HAD TO BE RE-ANALYZED.

6. ACETONE IN THE DUPLICATES EXCEEDED THE CONTROL LIMIT. IT MAY BE DUE TO MATRIX INTERFERENCE OR THE OPENING OF THE VIALS IN ORDER TO ADD THE STIR BAR.

7. INSTRUMENT INITIAL CALIBRATION & CONTINUING CALIBRATION CRITERIA WERE MET.

8. SAMPLE HOLDING TIME WAS MET.

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY - LOS ANGELES
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 977-7928

INDEX

EPA METHODS 8260B FOR SAMPLE: AV01585 - AV01591

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State of California
California Environmental Protection Agency

Department of Toxic Substances Control
Environmental Chemistry Laboratory

3

ENVIRONMENTAL CHEMISTRY LABORATORY SAMPLE ANALYSIS REQUEST

1. Authorization Number: 11SC0085

ECL No.: AV01585 To AV01591

2. Page 1 of 1

3. Requestor: (to Receive Results) a. Name: Greg Neal
b. Address: 5796 Corporate Avenue (street number)
Cypress Ca 90630 (city, state, zip)
c. Phone: 7144845455 (area code first) d. Fax: 7144845411 (area code first)
e. Email: gneal@dtsc.ca.gov @dtsc.ca.gov

4. Project Name (if applicable): WEI Mecca

5. TAT Level: 2

6. Sampling Information: a. Date/Time Sampled: 12/14-12/16/11 (mm/dd/yy) (#:## AM/PM)
b. Location: EPA ID No.
Site: WEI Mecca
Address: 62-150 Gene Welmas Ave (street number)
Mecca Ca (city, state, zip)
GPS-Lat: GPS-Long:
GPS-Alt: GPS-Depth:

7. Codes (select from drop down list or fill in if applicable)
a. Unit
b. INDEX
c. PCA 36195
d. MPC 962
e. SITE 551115-48
f. County Riverside

8. Samples:

	a. ID	b. Collector's No.	c. ECL No.	d. Matrix	e. Container Size	f. Number of containers	g. Preservative / Field Information
1	WEI-GL03-NE		AV01585	Soil	3-8oz 2-4oz 3-VOA	8 12/14 10:04	ICE Methanol Sodium Bisulfate
2	WEI-GL07-NW		AV01586	Soil	3-8oz 2-4oz 3-VOA	12/14 1324 16	ICE Methanol Sodium Bisulfate
~~3~~	~~WEI-GL07-NW~~		~~AV~~	~~Soil~~	~~3-8oz 2-4oz 3-VOA~~	~~8~~	~~ICE Methanol Sodium Bisulfate~~
4	WEI-GL16-SW		AV01587	soil	3-8oz 2-4oz 3 VOA	8 12/15 9:04	ICE Methanol Sodium Bisulfate
5	WEI-GL20-W		AV01588	soil	3-8oz 2-4oz 3 VOA	8 12/15 3:24	ICE Methanol Sodium Bisulfate
6	WEI-UT03		AV01589	soil	3-8oz 2-4oz 3 VOA	8 12/14 01:13	ICE Methanol Sodium Bisulfate
7	WEI-UT06		AV01590	soil	3-8oz 2-4oz 3 VOA	8 12/14 11:07	ICE Methanol Sodium Bisulfate
8	WEI-Blank		AV01591	liquid	3 VOA	3	Methanol Sodium Bisulfate
9							

9. Analysis Requested: Enter sample IDs and sample ID ranges separated by commas: For example, 1-3, 5-7, 9

a. Inorganic Analysis	Sample(s) ID	b. Organic Analysis	Sample(s) ID
· Cyanide	1,2,4,5,6,7,	· Chlorinated Pesticides	1,2,4,5,6,7
· Mercury	1,2,4,5,6,7,	· Organo ~~Chlorine~~ phosphate Pesticides	1,2,4,5,6,7
· Metals	1,2,4,5,6,7	· VOCs	1,2,4,5,6,7,8
· pH	1,2,4,5,6,7	· PCBs	1,2,4,5,6,7
· Hexavalent Chromium	1,2,4,5,6,7	· SVOCs	1,2,4,5,6,7
		· PAHs	1,2,4,5,6,7
		· Dioxins/furans	1,2,4,5,6,7
Other Metals:			

c. TCLP Analysis		d. Other Analysis
Metals only if necessary	1,2,4,5,6,7	
Mercury only if necessary	1,2,4,5,6,7	

FIELD

e. Comments for Multiphasic Samples/Analysis Priority:

10. Analysis Objective: Human Health Risk

11. Detection Limit Requirements: (Check ECL User's Manual to assure default DL is sufficient.)
Lowest Achievable

12. Supplemental Requests: Enter sample IDs as described in Item 9

Desired Analysis	Sample(s) ID

Initials
Date

ECL

13. ECL Lab Remarks:
Cr+6, TMS, pH, PCB, VOC, OCPs
TCLP-MS

LAB

14. Chain of Custody:

	Name	Title	Signature	Inclusive Dates of Custody		
a.	Greg Neal	Geologist	Greg Neal	12/14/11	to	12/16/11
b.	Alfredo Zahorria	Geologist	[illegible]	12/16/11	to	12/19/11
c.	Greg Neal	Geologist	Greg Neal	12/19/11	to	12/19/11
d.	Barbara Bush	Lab Tech	Barbara Bush	12/19/11	to	/
e.					to	
f.					to	
g.					to	

COC

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY - LOS ANGELES
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 977-7929

REQUESTER: GREG NEAL

ECL NOS AV01585-AV01588

SAMPLE LOCATION: WEI MECCA
62-150 GENE WELMOS AVE
MECCA, CA

DATE REPORTED: 1/4/2012

METHOD(S): EPA 8260B/5035 COLSED SYSTEM PURGE & TRAP AND VOLATILE ORGANIC COMPOUNDS BY GC/MS

VOCs BY GC/MS

							QUANTITATION LIMIT				
	ECL NO.		AV01585	AV01586	AV01587	AV01588		AV01585	AV01586	AV01587	AV01588
	COL. NO.	METHOD BLANK	WEI-GL 03-NE	WEI-GL 07-NW	WEI-GL 16-SW	WEI-GL 20-W	METHOD BLANK	WEI-GL 03-NE	WEI-GL 07-NW	WEI-GL 16-SW	WEI-GL 20-W
	MATRIX	WATER	SOIL	SOIL	SOIL	SOIL		SOIL	SOIL	SOIL	SOIL
ANALYTE	UNIT	UG/L	UG/KG	UG/KG	UG/KG	UG/KG	UG/L	UG/KG	UG/KG	UG/KG	UG/KG
FREON-12		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
CHLOROMETHANE (SPCC1)		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
VINYL CHLORIDE (CCC6)		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
METHYL BROMIDE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
CHLOROETHANE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
FREON-11		ND	ND	**3.3***	ND	ND	5.0	7.2	4.8	4.8	4.2
ACETONE		ND	**99**	**400**	**420**	**81**	50	72	48	48	42
1,1-DICHLOROETHENE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
METHYLENE CHLORIDE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
trans-1,2-DICHLOROETHENE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
1,1-DICHLOROETHANE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
2-BUTANONE (MEK)		ND	ND	**66**	**57**	ND	50	72	48	48	42
cis-1,2-DICHLOROETHENE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
2,2-DICHLOROPROPANE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
CHLOROFORM		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
BROMOCHLOROMETHANE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
1,1,1-TRICHLOROETHANE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
1,2 DICHLOROETHANE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
BENZENE		ND	**2.0***	**1.3***	**2.2***	**1.6***	5.0	7.2	4.8	4.8	4.2
1,1-DICHLOROPROPENE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
CARBONTETRACHLORIDE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2

NOTES: ND = NOT DETECTED UG/L = MICROGRAM/LITER UG/KG = MICROGRAM/KILOGRAM

* = ANALYTE WAS QUANTITATED BELOW THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.

NALYST
1/4/2012
ENNETH SINN DATE

APPROVED BY:
1/4/2012
KEH-CHUH TING DATE
BRANCH CHIEF

EVIEWED BY:
1/4/12
JE-DONG MEN DATE

ECL NO.: AV01585-AV01588

VOCs BY GC/MS

							QUANTITATION LIMIT				
	ECL NO.		AV01585	AV01586	AV01587	AV01588		AV01585	AV01586	AV01587	AV01588
	COL. NO.	METHOD BLANK	WEI-GL 03-NE	WEI-GL 07-NW	WEI-GL 16-SW	WEI-GL 20-W	METHOD BLANK	WEI-GL 03-NE	WEI-GL 07-NW	WEI-GL 16-SW	WEI-GL 20-W
	MATRIX	WATER	SOIL	SOIL	SOIL	SOIL	WATER	SOIL	SOIL	SOIL	SOIL
ANALYTE	UNIT	UG/L	UG/KG	UG/KG	UG/KG	UG/KG	UG/L	UG/KG	UG/KG	UG/KG	UG/KG
1,2-DICHLOROPROPANE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
TRICHLOROETHENE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
DIBROMOMETHANE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
BROMODICHLOROMETHANE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
4-METHYL-2-PENTANONE (MIBK)		ND	ND	ND	ND	ND	50	72	48	48	42
1,1,2-TRICHLOROETHANE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
TOLUENE		ND	**2.4***	**1.8***	**1.7***	**1.3***	5.0	7.2	4.8	4.8	4.2
2-HEXANONE (MBK)		ND	ND	ND	ND	ND	50	72	48	48	42
1,3-DICHLOROPROPANE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
DIBROMOCHLOROMETHANE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
1,2-DIBROMOETHANE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
TETRACHLOROETHENE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
CHLOROBENZENE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
1,1,1,2-TETRACHLOROETHANE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
ETHYLBENZENE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
M & P - XYLENES		ND	ND	ND	ND	ND	10	14	9.6	9.6	8.4
BROMOFORM		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
STYRENE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
O - XYLENE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
1,1,2,2-TETRACHLOROETHANE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
1,2,3-TRICHLOROPROPANE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
ISOPROPYLBENZENE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
BROMOBENZENE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2

NOTES: ND = NOT DETECTED UG/L = MICROGRAM/LITER UG/KG = MICROGRAM/KILOGRAM

* = ANALYTE WAS QUANTITATED BELOW THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.

ANALYST: 1/4/2012
KENNETH SINN DATE

APPROVED BY: 1/4/2012
KEH-CHUH TING DATE
BRANCH CHIEF

REVIEWED BY: 1/4/12
YUE-DONG MEN DATE

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY - LOS ANGELES
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 977-7929

ECL NO.: AV01585-AV01588

VOCs BY GC/MS

							QUANTITATION LIMIT				
	ECL NO.		AV01585	AV01586	AV01587	AV01588		AV01585	AV01586	AV01587	AV01588
	COL. NO.	METHOD BLANK	WEI-GL 03-NE	WEI-GL 07-NW	WEI-GL 16-SW	WEI-GL 20-W	METHOD BLANK	WEI-GL 03-NE	WEI-GL 07-NW	WEI-GL 16-SW	WEI-GL 20-W
	MATRIX	WATER	SOIL	SOIL	SOIL	SOIL	WATER	SOIL	SOIL	SOIL	SOIL
ANALYTE	UNIT	UG/L	UG/KG	UG/KG	UG/KG	UG/KG	UG/L	UG/KG	UG/KG	UG/KG	UG/KG
2-CHLOROTOLUENE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
N-PROPYLBENZENE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
4-CHLOROTOLUENE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
1,3,5-TRIMETHYLBENZENE		ND	ND	**3.5***	ND	ND	5.0	7.2	4.8	4.8	4.2
TER-BUTYLBENZENE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
1,2,4-TRIMETHYLBENZENE		ND	**4.9***	**8.1**	ND	ND	5.0	7.2	4.8	4.8	4.2
1,3-DICHLOROBENZENE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
SEC-BUTYLBENZENE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
1,4-DICHLOROBENZENE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
P-ISOPROPYLTOLUENE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
1,2-DICHLOROBENZENE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
N-BUTYLBENZENE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
1,2,4-TRICHLOROBENZENE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
NAPHTHALENE		ND	**4.3***	**5.3**	ND	ND	5.0	7.2	4.8	4.8	4.2
1,2,3-TRICHLOROBENZENE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
HEXACHLOROBUTADIENE		ND	ND	ND	ND	ND	5.0	7.2	4.8	4.8	4.2
TENTATIVELY IDENTIFIED COMPOUNDS (TIC): HYDROCARBONS, CYCLIC COMPOUNDS AND AROMATIC COMPOUNDS											

NOTES: ND = NOT DETECTED UG/L = MICROGRAM/LITER UG/KG = MICROGRAM/KILOGRAM

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ANALYST
1/4/2012
KENNETH SINN DATE

APPROVED BY:
1/4/2012
KEH-CHUH TING DATE
BRANCH CHIEF

REVIEWED BY:
1/4/12
YUE-DONG MEN DATE

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY - LOS ANGELES
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 977-7929

REQUESTER: GREG NEAL

ECL NOS AV01589-AV01591

SAMPLE LOCATION: WEI MECCA
62-150 GENE WELMOS AVE
MECCA, CA

DATE REPORTED: 1/4/2012

METHOD(S): EPA 8260B/5035 COLSED SYSTEM PURGE & TRAP AND VOLATILE ORGANIC COMPOUNDS BY GC/MS

VOCs BY GC/MS

							QUANTITATION LIMIT				
	ECL NO.		AV01589	AV01590	AV01591			AV01589	AV01590	AV01591	
	COL. NO.	METHOD BLANK	WEI-UT03	WEI-UT06	WEI-BLANK		METHOD BLANK	WEI-UT03	WEI-UT06	WEI-BLANK	
	MATRIX	WATER	SOIL	SOIL	LIQUID			SOIL	SOIL	LIQUID	
ANALYTE	UNIT	UG/L	UG/KG	UG/KG	UG/L		UG/L	UG/KG	UG/KG	UG/L	
FREON-12		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
CHLOROMETHANE (SPCC1)		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
VINYL CHLORIDE (CCC6)		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
METHYL BROMIDE		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
CHLOROETHANE		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
FREON-11		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
ACETONE		ND	**110**	ND	ND		50	44	39	50	
1,1-DICHLOROETHENE		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
METHYLENE CHLORIDE		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
trans-1,2-DICHLOROETHENE		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
1,1-DICHLOROETHANE		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
2-BUTANONE (MEK)		ND	ND	ND	ND		50	44	39	50	
cis-1,2-DICHLOROETHENE		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
2,2-DICHLOROPROPANE		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
CHLOROFORM		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
BROMOCHLOROMETHANE		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
1,1,1-TRICHLOROETHANE		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
1,2 DICHLOROETHANE		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
BENZENE		ND	**1.7***	**1.6***	ND		5.0	4.4	3.9	5.0	
1,1-DICHLOROPROPENE		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
CARBONTETRACHLORIDE		ND	ND	ND	ND		5.0	4.4	3.9	5.0	

NOTES: ND = NOT DETECTED UG/L = MICROGRAM/LITER UG/KG = MICROGRAM/KILOGRAM

* = ANALYTE WAS QUANTITATED BELOW THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.

ANALYST
1/4/2012
KENNETH SINN DATE

APPROVED BY:
1/4/2012
KEH-CHUH TING DATE
BRANCH CHIEF

REVIEWED BY:
1/4/12
JIE-DONG MEN DATE

ECL NO.: AV01589-AV01591

VOCs BY GC/MS

							QUANTITATION LIMIT				
	ECL NO.		AV01589	AV01590	AV01591			AV01589	AV01590	AV01591	
	COL. NO.	METHOD BLANK	WEI-UT03	WEI-UT06	WEI-BLANK		METHOD BLANK	WEI-UT03	WEI-UT06	WEI-BLANK	
	MATRIX	WATER	SOIL	SOIL	LIQUID		WATER	SOIL	SOIL	LIQUID	
ANALYTE	UNIT	UG/L	UG/KG	UG/KG	UG/L		UG/L	UG/KG	UG/KG	UG/L	
1,2-DICHLOROPROPANE		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
TRICHLOROETHENE		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
DIBROMOMETHANE		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
BROMODICHLOROMETHANE		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
4-METHYL-2-PENTANONE (MIBK)		ND	ND	ND	ND		50	44	39	50	
1,1,2-TRICHLOROETHANE		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
TOLUENE		ND	**6.8**	**1.1***	ND		5.0	4.4	3.9	5.0	
2-HEXANONE (MBK)		ND	ND	ND	ND		50	44	39	50	
1,3-DICHLOROPROPANE		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
DIBROMOCHLOROMETHANE		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
1,2-DIBROMOETHANE		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
TETRACHLOROETHENE		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
CHLOROBENZENE		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
1,1,1,2-TETRACHLOROETHANE		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
ETHYLBENZENE		ND	**3.4***	**5.5**	ND		5.0	4.4	3.9	5.0	
M & P - XYLENES		ND	**14**	ND	ND		10	8.8	7.8	10	
BROMOFORM		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
STYRENE		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
O - XYLENE		ND	**23**	ND	ND		5.0	4.4	3.9	5.0	
1,1,2,2-TETRACHLOROETHANE		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
1,2,3-TRICHLOROPROPANE		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
ISOPROPYLBENZENE		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
BROMOBENZENE		ND	ND	ND	ND		5.0	4.4	3.9	5.0	

NOTES: ND = NOT DETECTED UG/L = MICROGRAM/LITER UG/KG = MICROGRAM/KILOGRAM

* = ANALYTE WAS QUANTITATED BELOW THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.

ANALYST

1/4/2012

KENNETH SINN DATE

APPROVED BY:

1/4/2012

KEH-CHUH TING DATE
BRANCH CHIEF

REVIEWED BY:

1/4/12

YUE-DONG MEN DATE

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY - LOS ANGELES
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 977-7929

ECL NO.: AV01589-AV01591

VOCs BY GC/MS

							QUANTITATION LIMIT				
	ECL NO.		AV01589	AV01590	AV01591			AV01589	AV01590	AV01591	
	COL. NO.	METHOD BLANK	WEI-UT03	WEI-UT06	WEI-BLANK		METHOD BLANK	WEI-UT03	WEI-UT06	WEI-BLANK	
	MATRIX	WATER	SOIL	SOIL	LIQUID		WATER	SOIL	SOIL	LIQUID	
ANALYTE	UNIT	UG/L	UG/KG	UG/KG	UG/L		UG/L	UG/KG	UG/KG	UG/L	
2-CHLOROTOLUENE		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
N-PROPYLBENZENE		ND	**26**	**2.6***	ND		5.0	4.4	3.9	5.0	
4-CHLOROTOLUENE		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
1,3,5-TRIMETHYLBENZENE		ND	**70****	ND	ND		5.0	4.4	3.9	5.0	
TER-BUTYLBENZENE		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
1,2,4-TRIMETHYLBENZENE		ND	**260****	ND	ND		5.0	4.4	3.9	5.0	
1,3-DICHLOROBENZENE		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
SEC-BUTYLBENZENE		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
1,4-DICHLOROBENZENE		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
P-ISOPROPYLTOLUENE		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
1,2-DICHLOROBENZENE		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
N-BUTYLBENZENE		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
1,2,4-TRICHLOROBENZENE		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
NAPHTHALENE		ND	**25**	ND	ND		5.0	4.4	3.9	5.0	
1,2,3-TRICHLOROBENZENE		ND	ND	ND	ND		5.0	4.4	3.9	5.0	
HEXACHLOROBUTADIENE		ND	ND	ND	ND		5.0	4.4	3.9	5.0	

TENTATIVELY IDENTIFIED COMPOUNDS (TIC): HYDROCARBONS, CYCLIC COMPOUNDS AND AROMATIC COMPOUNDS

NOTES: ND = NOT DETECTED UG/L = MICROGRAM/LITER UG/KG = MICROGRAM/KILOGRAM

* = ANALYTE WAS QUANTITATED BELOW THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.

** = ANALYTE WAS QUANTITATED ABOVE THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.

ANALYST
K. Sin 1/4/2012
KENNETH SINN DATE

APPROVED BY:
K. C. Ting 1/4/2012
KEH-CHUH TING DATE
BRANCH CHIEF

REVIEWED BY:
Yue-Dong Men 1/4/12
YUE-DONG MEN DATE

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY - LOS ANGELES
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 977-7929

EQUESTER: GREG NEAL

DATE SAMPLE RECEIVED: 12/19/2011

AMPLING LOCATION: WEI MECCA
62-150 GENE WELMOS AVE
MECCA, CA

DATE SAMPLE ANALYZED : 12/21/2011
12/22/2011

ETHOD(S EPA 8260B/5035 COLSED SYSTEM PURGE & TRAP AND VOLATILE ORGANIC COMPOUNDS BY GC/MS

QC REPORT FOR SAMPLE DUPLICATE ANALYSIS

ERFORMED ON ECL NO.: AV01588

☐ NOT ANALYZED (SEE NOTES)

YPE OF MATRIX : SOIL

NALYTE	SAMPLE UG/KG	SAMPLE DUPLICATE UG/KG	AVERAGE UG/KG	REL%DIFF (RPD) %	CONTROL LIMIT %
CETONE	81	120	100	39*	<25

QC REPORT FOR MATRIX SPIKE (MS)/MATRIX SPIKE DUPLICATE (MSD) PERCENT RECOVERY

ATRIX SPIKE PERFORMED ON AV01586

☐ NOT ANALYZED SEE NOTES

YPE OF MATRIX SOIL

ANALYTE	AMOUNT OF ANALYTE IN SAMPLE UG/KG	AMOUNT OF ANALYTE ADDED UG/KG	MATRIX SPIKE AMOUNT RECOVERED UG/KG	MATRIX SPIKE %REC %	MATRIX SPIKE DUPLICATE AMOUNT RECOVERED UG/KG	MATRIX SPIKE DUPLICATE %REC %	AVE % REC %	CONTROL LIMITS FOR % REC %	RPD BETWEEN MS/MSD %	CONTROL LIMITS FOR RPD %
,1-DICHLOROETHENE	<4.8	24/24	18.8	77	19.7	81	79	56.6-113	5.1	<25
BENZENE	1.3*	24/24	22.1	92	21.9	91	92	61.3-114	1.1	<25
TRICHLOROETHENE	<4.8	24/24	19.7	81	21	86	84	57.7-117	5.6	<25
TOLUENE	1.8**	24/24	25.5	106	24.4	102	104	62.0-120	3.8	<25
CHLOROBENZENE	<4.8	24/24	20.4	83	21	86	85	58.3-119	3.5	<25

* = THE % RPD FOR ACETONE IN SAMPLE AV01588 EXCEEDED THE ACCEPTANCE VALUE OF THE CONTROL LIMIT
** = THE AMOUNT OF TOLUENE IN THE SAMPLE IS BELOW THE QUANTITATION LIMIT

ANALYST
K. Sinn 1/4/2012
KENNETH SINN DATE

APPROVED BY:
K. C. Ting 1/4/2012
KEH-CHUH TING DATE
BRANCH CHIEF

REVIEWED BY:
Yue-Dong Men 1/4/12
YUE-DONG MEN DATE

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY - LOS ANGELES
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 977-7929

REQUESTER: GREG NEAL

DATE SAMPLE RECEIVED: 12/19/2011

SAMPLING LOCATION: WEI MECCA
62-150 GENE WELMOS AVE
MECCA, CA

DATE SAMPLE ANALYZED: 12/21 & 12/22/2011

PAGE 1 OF 1

MET EPA 8260B/5035 COLSED SYSTEM PURGE & TRAP AND VOLATILE ORGANIC COMPOUNDS BY GC/MS

QC REPORT FOR SURROGATE SPIKE % RECOVERY

	DIBROMOFLUOROMETHANE			TOLUENE - D8			4-BROMOFLUOROBENZENE		
	ADDED	RECOVERED		ADDED	RECOVERED		ADDED	RECOVERED	
QC/SAMPLES / SAMPLE NO.	NG	NG	% REC	NG	NG	% REC	NG	NG	% REC
WATER BLANK 12/21/11	100	99	99	100	99	99	100	103	103
DAILY CAL 12/21/2011	100	102	102	100	100	100	100	103	103
SAMPLE # A01585	100	103	103	100	100	100	100	104	104
SAMPLE # A01586	100	106	106	100	97	97	100	115	115
SAMPLE # A01587	100	107	107	100	98	98	100	118	118
SAMPLE # A01588	100	105	105	100	98	98	100	120	120
WATER BLANK 12/22/11	100	102	102	100	99	99	100	105	105
DAILY CAL 12/22/2011	100	102	102	100	101	101	100	101	101
A01588 DUPLICATE	100	105	105	100	98	98	100	115	115
SAMPLE # A01589	100	107	107	100	99	99	100	108	108
SAMPLE # A01590	100	104	104	100	102	102	100	104	104
SAMPLE # A01591	100	105	105	100	100	100	100	104	104
AV01586 MATRIX SPIKE	100	106	106	100	99	99	100	129	129
AV01586 MS DUPLICATE	100	104	104	100	101	101	100	112	112
CONTROL LIMIT FOR %REC	70-130			70-130			70-130		

ANALYST
K. Sinn 1/4/2012
KENNETH SINN DATE

APPROVED BY:
K. C. Ting 1/4/2011
KEH-CHUH TING
BRANCH CHIEF DATE

REVIEWED BY:
Yue-Dong Men 1/6/12
YUE-DONG MEN DATE

ADVANCED TECHNOLOGY LABORATORIES

January 18, 2012

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Juliet Tabajonda
Department of Toxic Substances Control
Environmental Chemistry Laboratory
Berkeley, CA 94710
Tel: (510) 540-3746
Fax:(510) 540-2305

Re: ATL Work Order Number : 1100778
Client Reference : 11AT0085

Enclosed are the results for sample(s) received on December 20, 2011 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

3275 Walnut Avenue, Signal Hill, CA 90755 • Tel: 562-989-4045 • Fax: 562-989-4040
www.atlglobal.com

Department of Toxic Substances Control		Project Number :	11AT0085
Environmental Chemistry Laboratory		Report To :	Juliet Tabajonda
Berkeley , CA 94710		Reported :	01/18/2012

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WEI-GL03-NE	1100778-01	Soil	12/14/11 0:00	12/20/11 9:57
WEI-GL07-NW	1100778-02	Soil	12/14/11 0:00	12/20/11 9:57
WEI-GL16-SW	1100778-03	Soil	12/15/11 0:00	12/20/11 9:57
WEI-GL20-W	1100778-04	Soil	12/15/11 0:00	12/20/11 9:57
WEI-UT03	1100778-05	Soil	12/16/11 0:00	12/20/11 9:57
WEI-UT06	1100778-06	Soil	12/16/11 0:00	12/20/11 9:57

CASE NARRATIVE

Sample Receiving/General Comments

1. All sample containers were received intact with proper chain of custody documentation.
2. Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.
3. Sample preservation was verified upon receipt of samples, if applicable.
4. All samples were analyzed within method holding times.

Department of Toxic Substances Control	Project Number : 11AT0085
Environmental Chemistry Laboratory	Report To : Juliet Tabajonda
Berkeley , CA 94710	Reported : 01/18/2012

Client Sample ID WEI-GL03-NE
Lab ID: 1100778-01

Organophosphorous Pesticides by EPA 8141 **Analyst: PIL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Azinphosmethyl	ND	5.0	2.8	1	B1L0883	12/27/2011	12/28/11 13:22	
Bolstar	ND	5.0	2.9	1	B1L0883	12/27/2011	12/28/11 13:22	
Chlorpyrifos	ND	5.0	2.6	1	B1L0883	12/27/2011	12/28/11 13:22	
Coumaphos	ND	5.0	2.5	1	B1L0883	12/27/2011	12/28/11 13:22	
Demeton-O	ND	5.0	2.7	1	B1L0883	12/27/2011	12/28/11 13:22	
Demeton-S	ND	5.0	3.4	1	B1L0883	12/27/2011	12/28/11 13:22	
Diazinon	ND	5.0	2.2	1	B1L0883	12/27/2011	12/28/11 13:22	
Dichlorvos	ND	5.0	NA	1	B1L0883	12/27/2011	12/28/11 13:22	
Disulfoton	ND	5.0	3.5	1	B1L0883	12/27/2011	12/28/11 13:22	
Ethoprop	ND	5.0	2.5	1	B1L0883	12/27/2011	12/28/11 13:22	
Fensulfothion	ND	5.0	2.6	1	B1L0883	12/27/2011	12/28/11 13:22	
Fenthion	ND	5.0	2.7	1	B1L0883	12/27/2011	12/28/11 13:22	
Malathion	ND	5.0	2.6	1	B1L0883	12/27/2011	12/28/11 13:22	
Mevinphos	ND	5.0	2.6	1	B1L0883	12/27/2011	12/28/11 13:22	
Naled	ND	5.0	3.2	1	B1L0883	12/27/2011	12/28/11 13:22	
Parathion, methyl	ND	5.0	2.8	1	B1L0883	12/27/2011	12/28/11 13:22	
Phorate	ND	5.0	2.3	1	B1L0883	12/27/2011	12/28/11 13:22	
Ronnel	ND	5.0	3.3	1	B1L0883	12/27/2011	12/28/11 13:22	
Tetrachlorvinphos	ND	5.0	3.3	1	B1L0883	12/27/2011	12/28/11 13:22	
Tokuthion	ND	5.0	3.0	1	B1L0883	12/27/2011	12/28/11 13:22	
Trichloronate	ND	5.0	3.1	1	B1L0883	12/27/2011	12/28/11 13:22	
Merphos	ND	5.0	5.0	1	B1L0883	12/27/2011	12/28/11 13:22	
Surrogate: Tributyl Phosphate	*108 %*		*36 - 131*		B1L0883	12/27/2011	*12/28/11 13:22*	
Surrogate: Triphenyl Phosphate	*66.7 %*		*38 - 126*		B1L0883	12/27/2011	*12/28/11 13:22*	

Department of Toxic Substances Control		Project Number :	11AT0085
Environmental Chemistry Laboratory		Report To :	Juliet Tabajonda
Berkeley , CA 94710		Reported :	01/18/2012

Client Sample ID WEI-GL03-NE

Lab ID: 1100778-01

Cyanide, Total by EPA 9014 **Analyst: AG**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Cyanide, Total	**0.18**	0.25	0.16	1	B2A0078	12/27/2011	12/28/11 08:36	J

Department of Toxic Substances Control	Project Number : 11AT0085
Environmental Chemistry Laboratory	Report To : Juliet Tabajonda
Berkeley , CA 94710	Reported : 01/18/2012

Client Sample ID WEI-GL07-NW
Lab ID: 1100778-02

Organophosphorous Pesticides by EPA 8141 **Analyst: PIL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Azinphosmethyl	ND	5.0	2.8	1	B1L0883	12/27/2011	12/28/11 13:55	
Bolstar	ND	5.0	2.9	1	B1L0883	12/27/2011	12/28/11 13:55	
Chlorpyrifos	ND	5.0	2.6	1	B1L0883	12/27/2011	12/28/11 13:55	
Coumaphos	ND	5.0	2.5	1	B1L0883	12/27/2011	12/28/11 13:55	
Demeton-O	ND	5.0	2.7	1	B1L0883	12/27/2011	12/28/11 13:55	
Demeton-S	ND	5.0	3.4	1	B1L0883	12/27/2011	12/28/11 13:55	
Diazinon	ND	5.0	2.2	1	B1L0883	12/27/2011	12/28/11 13:55	
Dichlorvos	ND	5.0	NA	1	B1L0883	12/27/2011	12/28/11 13:55	
Disulfoton	ND	5.0	3.5	1	B1L0883	12/27/2011	12/28/11 13:55	
Ethoprop	ND	5.0	2.5	1	B1L0883	12/27/2011	12/28/11 13:55	
Fensulfothion	ND	5.0	2.6	1	B1L0883	12/27/2011	12/28/11 13:55	
Fenthion	ND	5.0	2.7	1	B1L0883	12/27/2011	12/28/11 13:55	
Malathion	ND	5.0	2.6	1	B1L0883	12/27/2011	12/28/11 13:55	
Mevinphos	ND	5.0	2.6	1	B1L0883	12/27/2011	12/28/11 13:55	
Naled	ND	5.0	3.2	1	B1L0883	12/27/2011	12/28/11 13:55	
Parathion, methyl	ND	5.0	2.8	1	B1L0883	12/27/2011	12/28/11 13:55	
Phorate	ND	5.0	2.3	1	B1L0883	12/27/2011	12/28/11 13:55	
Ronnel	ND	5.0	3.3	1	B1L0883	12/27/2011	12/28/11 13:55	
Tetrachlorvinphos	ND	5.0	3.3	1	B1L0883	12/27/2011	12/28/11 13:55	
Tokuthion	ND	5.0	3.0	1	B1L0883	12/27/2011	12/28/11 13:55	
Trichloronate	ND	5.0	3.1	1	B1L0883	12/27/2011	12/28/11 13:55	
Merphos	ND	5.0	5.0	1	B1L0883	12/27/2011	12/28/11 13:55	
Surrogate: Tributyl Phosphate	*101 %*		*36 - 131*		B1L0883	12/27/2011	*12/28/11 13:55*	
Surrogate: Triphenyl Phosphate	*76.7 %*		*38 - 126*		B1L0883	12/27/2011	*12/28/11 13:55*	

Department of Toxic Substances Control		Project Number :	11AT0085
Environmental Chemistry Laboratory		Report To :	Juliet Tabajonda
Berkeley , CA 94710		Reported :	01/18/2012

Client Sample ID WEI-GL07-NW

Lab ID: 1100778-02

Cyanide, Total by EPA 9014 **Analyst: AG**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Cyanide, Total	**0.22**	0.25	0.16	1	B2A0078	12/27/2011	12/28/11 08:36	J

Department of Toxic Substances Control	Project Number : 11AT0085
Environmental Chemistry Laboratory	Report To : Juliet Tabajonda
Berkeley , CA 94710	Reported : 01/18/2012

Client Sample ID WEI-GL16-SW
Lab ID: 1100778-03

Organophosphorous Pesticides by EPA 8141 **Analyst: PIL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Azinphosmethyl	ND	5.0	2.8	1	B1L0883	12/27/2011	12/28/11 14:28	
Bolstar	ND	5.0	2.9	1	B1L0883	12/27/2011	12/28/11 14:28	
Chlorpyrifos	ND	5.0	2.6	1	B1L0883	12/27/2011	12/28/11 14:28	
Coumaphos	ND	5.0	2.5	1	B1L0883	12/27/2011	12/28/11 14:28	
Demeton-O	ND	5.0	2.7	1	B1L0883	12/27/2011	12/28/11 14:28	
Demeton-S	ND	5.0	3.4	1	B1L0883	12/27/2011	12/28/11 14:28	
Diazinon	ND	5.0	2.2	1	B1L0883	12/27/2011	12/28/11 14:28	
Dichlorvos	ND	5.0	NA	1	B1L0883	12/27/2011	12/28/11 14:28	
Disulfoton	ND	5.0	3.5	1	B1L0883	12/27/2011	12/28/11 14:28	
Ethoprop	ND	5.0	2.5	1	B1L0883	12/27/2011	12/28/11 14:28	
Fensulfothion	ND	5.0	2.6	1	B1L0883	12/27/2011	12/28/11 14:28	
Fenthion	ND	5.0	2.7	1	B1L0883	12/27/2011	12/28/11 14:28	
Malathion	ND	5.0	2.6	1	B1L0883	12/27/2011	12/28/11 14:28	
Mevinphos	ND	5.0	2.6	1	B1L0883	12/27/2011	12/28/11 14:28	
Naled	ND	5.0	3.2	1	B1L0883	12/27/2011	12/28/11 14:28	
Parathion, methyl	ND	5.0	2.8	1	B1L0883	12/27/2011	12/28/11 14:28	
Phorate	ND	5.0	2.3	1	B1L0883	12/27/2011	12/28/11 14:28	
Ronnel	ND	5.0	3.3	1	B1L0883	12/27/2011	12/28/11 14:28	
Tetrachlorvinphos	ND	5.0	3.3	1	B1L0883	12/27/2011	12/28/11 14:28	
Tokuthion	ND	5.0	3.0	1	B1L0883	12/27/2011	12/28/11 14:28	
Trichloronate	ND	5.0	3.1	1	B1L0883	12/27/2011	12/28/11 14:28	
Merphos	ND	5.0	5.0	1	B1L0883	12/27/2011	12/28/11 14:28	
Surrogate: Tributyl Phosphate	*80.8 %*		*36 - 131*		B1L0883	12/27/2011	*12/28/11 14:28*	
Surrogate: Triphenyl Phosphate	*65.8 %*		*38 - 126*		B1L0883	12/27/2011	*12/28/11 14:28*	

Department of Toxic Substances Control		Project Number :	11AT0085
Environmental Chemistry Laboratory		Report To :	Juliet Tabajonda
Berkeley , CA 94710		Reported :	01/18/2012

Client Sample ID WEI-GL16-SW

Lab ID: 1100778-03

Cyanide, Total by EPA 9014 **Analyst: AG**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Cyanide, Total	**0.32**	0.25	0.16	1	B2A0078	12/27/2011	12/28/11 08:36	

Department of Toxic Substances Control	Project Number : 11AT0085
Environmental Chemistry Laboratory	Report To : Juliet Tabajonda
Berkeley , CA 94710	Reported : 01/18/2012

Client Sample ID WEI-GL20-W
Lab ID: 1100778-04

Organophosphorous Pesticides by EPA 8141 **Analyst: PIL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Azinphosmethyl	ND	5.0	2.8	1	B1L0883	12/27/2011	12/28/11 15:01	
Bolstar	ND	5.0	2.9	1	B1L0883	12/27/2011	12/28/11 15:01	
Chlorpyrifos	ND	5.0	2.6	1	B1L0883	12/27/2011	12/28/11 15:01	
Coumaphos	ND	5.0	2.5	1	B1L0883	12/27/2011	12/28/11 15:01	
Demeton-O	ND	5.0	2.7	1	B1L0883	12/27/2011	12/28/11 15:01	
Demeton-S	ND	5.0	3.4	1	B1L0883	12/27/2011	12/28/11 15:01	
Diazinon	ND	5.0	2.2	1	B1L0883	12/27/2011	12/28/11 15:01	
Dichlorvos	ND	5.0	NA	1	B1L0883	12/27/2011	12/28/11 15:01	
Disulfoton	ND	5.0	3.5	1	B1L0883	12/27/2011	12/28/11 15:01	
Ethoprop	ND	5.0	2.5	1	B1L0883	12/27/2011	12/28/11 15:01	
Fensulfothion	ND	5.0	2.6	1	B1L0883	12/27/2011	12/28/11 15:01	
Fenthion	ND	5.0	2.7	1	B1L0883	12/27/2011	12/28/11 15:01	
Malathion	ND	5.0	2.6	1	B1L0883	12/27/2011	12/28/11 15:01	
Mevinphos	ND	5.0	2.6	1	B1L0883	12/27/2011	12/28/11 15:01	
Naled	ND	5.0	3.2	1	B1L0883	12/27/2011	12/28/11 15:01	
Parathion, methyl	ND	5.0	2.8	1	B1L0883	12/27/2011	12/28/11 15:01	
Phorate	ND	5.0	2.3	1	B1L0883	12/27/2011	12/28/11 15:01	
Ronnel	ND	5.0	3.3	1	B1L0883	12/27/2011	12/28/11 15:01	
Tetrachlorvinphos	ND	5.0	3.3	1	B1L0883	12/27/2011	12/28/11 15:01	
Tokuthion	ND	5.0	3.0	1	B1L0883	12/27/2011	12/28/11 15:01	
Trichloronate	ND	5.0	3.1	1	B1L0883	12/27/2011	12/28/11 15:01	
Merphos	ND	5.0	5.0	1	B1L0883	12/27/2011	12/28/11 15:01	
Surrogate: Tributyl Phosphate	*74.7 %*		*36 - 131*		B1L0883	12/27/2011	*12/28/11 15:01*	
Surrogate: Triphenyl Phosphate	*65.4 %*		*38 - 126*		B1L0883	12/27/2011	*12/28/11 15:01*	

Department of Toxic Substances Control		Project Number :	11AT0085
Environmental Chemistry Laboratory		Report To :	Juliet Tabajonda
Berkeley , CA 94710		Reported :	01/18/2012

Client Sample ID WEI-GL20-W

Lab ID: 1100778-04

Cyanide, Total by EPA 9014 **Analyst: AG**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Cyanide, Total	**0.30**	0.25	0.16	1	B2A0078	12/27/2011	12/28/11 08:36	

Department of Toxic Substances Control	Project Number : 11AT0085
Environmental Chemistry Laboratory	Report To : Juliet Tabajonda
Berkeley , CA 94710	Reported : 01/18/2012

Client Sample ID WEI-UT03
Lab ID: 1100778-05

Organophosphorous Pesticides by EPA 8141 **Analyst: PIL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Azinphosmethyl	ND	5.0	2.8	1	B1L0883	12/27/2011	12/28/11 15:34	
Bolstar	ND	5.0	2.9	1	B1L0883	12/27/2011	12/28/11 15:34	
Chlorpyrifos	ND	5.0	2.6	1	B1L0883	12/27/2011	12/28/11 15:34	
Coumaphos	ND	5.0	2.5	1	B1L0883	12/27/2011	12/28/11 15:34	
Demeton-O	ND	5.0	2.7	1	B1L0883	12/27/2011	12/28/11 15:34	
Demeton-S	ND	5.0	3.4	1	B1L0883	12/27/2011	12/28/11 15:34	
Diazinon	ND	5.0	2.2	1	B1L0883	12/27/2011	12/28/11 15:34	
Dichlorvos	ND	5.0	NA	1	B1L0883	12/27/2011	12/28/11 15:34	
Disulfoton	ND	5.0	3.5	1	B1L0883	12/27/2011	12/28/11 15:34	
Ethoprop	ND	5.0	2.5	1	B1L0883	12/27/2011	12/28/11 15:34	
Fensulfothion	ND	5.0	2.6	1	B1L0883	12/27/2011	12/28/11 15:34	
Fenthion	ND	5.0	2.7	1	B1L0883	12/27/2011	12/28/11 15:34	
Malathion	ND	5.0	2.6	1	B1L0883	12/27/2011	12/28/11 15:34	
Mevinphos	ND	5.0	2.6	1	B1L0883	12/27/2011	12/28/11 15:34	
Naled	ND	5.0	3.2	1	B1L0883	12/27/2011	12/28/11 15:34	
Parathion, methyl	ND	5.0	2.8	1	B1L0883	12/27/2011	12/28/11 15:34	
Phorate	ND	5.0	2.3	1	B1L0883	12/27/2011	12/28/11 15:34	
Ronnel	ND	5.0	3.3	1	B1L0883	12/27/2011	12/28/11 15:34	
Tetrachlorvinphos	ND	5.0	3.3	1	B1L0883	12/27/2011	12/28/11 15:34	
Tokuthion	ND	5.0	3.0	1	B1L0883	12/27/2011	12/28/11 15:34	
Trichloronate	ND	5.0	3.1	1	B1L0883	12/27/2011	12/28/11 15:34	
Merphos	ND	5.0	5.0	1	B1L0883	12/27/2011	12/28/11 15:34	
Surrogate: Tributyl Phosphate	*50.9 %*		*36 - 131*		B1L0883	12/27/2011	*12/28/11 15:34*	
Surrogate: Triphenyl Phosphate	*64.4 %*		*38 - 126*		B1L0883	12/27/2011	*12/28/11 15:34*	

Department of Toxic Substances Control		Project Number :	11AT0085
Environmental Chemistry Laboratory		Report To :	Juliet Tabajonda
Berkeley , CA 94710		Reported :	01/18/2012

Client Sample ID WEI-UT03

Lab ID: 1100778-05

Cyanide, Total by EPA 9014 **Analyst: AG**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Cyanide, Total	ND	0.25	0.16	1	B2A0078	12/27/2011	12/28/11 08:36	

Department of Toxic Substances Control	Project Number : 11AT0085
Environmental Chemistry Laboratory	Report To : Juliet Tabajonda
Berkeley , CA 94710	Reported : 01/18/2012

Client Sample ID WEI-UT06
Lab ID: 1100778-06

Organophosphorous Pesticides by EPA 8141 **Analyst: PIL**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Azinphosmethyl	ND	5.0	2.8	1	B1L0883	12/27/2011	12/28/11 16:07	
Bolstar	ND	5.0	2.9	1	B1L0883	12/27/2011	12/28/11 16:07	
Chlorpyrifos	ND	5.0	2.6	1	B1L0883	12/27/2011	12/28/11 16:07	
Coumaphos	ND	5.0	2.5	1	B1L0883	12/27/2011	12/28/11 16:07	
Demeton-O	ND	5.0	2.7	1	B1L0883	12/27/2011	12/28/11 16:07	
Demeton-S	ND	5.0	3.4	1	B1L0883	12/27/2011	12/28/11 16:07	
Diazinon	ND	5.0	2.2	1	B1L0883	12/27/2011	12/28/11 16:07	
Dichlorvos	ND	5.0	NA	1	B1L0883	12/27/2011	12/28/11 16:07	
Disulfoton	ND	5.0	3.5	1	B1L0883	12/27/2011	12/28/11 16:07	
Ethoprop	ND	5.0	2.5	1	B1L0883	12/27/2011	12/28/11 16:07	
Fensulfothion	ND	5.0	2.6	1	B1L0883	12/27/2011	12/28/11 16:07	
Fenthion	ND	5.0	2.7	1	B1L0883	12/27/2011	12/28/11 16:07	
Malathion	ND	5.0	2.6	1	B1L0883	12/27/2011	12/28/11 16:07	
Mevinphos	ND	5.0	2.6	1	B1L0883	12/27/2011	12/28/11 16:07	
Naled	ND	5.0	3.2	1	B1L0883	12/27/2011	12/28/11 16:07	
Parathion, methyl	ND	5.0	2.8	1	B1L0883	12/27/2011	12/28/11 16:07	
Phorate	ND	5.0	2.3	1	B1L0883	12/27/2011	12/28/11 16:07	
Ronnel	ND	5.0	3.3	1	B1L0883	12/27/2011	12/28/11 16:07	
Tetrachlorvinphos	ND	5.0	3.3	1	B1L0883	12/27/2011	12/28/11 16:07	
Tokuthion	ND	5.0	3.0	1	B1L0883	12/27/2011	12/28/11 16:07	
Trichloronate	ND	5.0	3.1	1	B1L0883	12/27/2011	12/28/11 16:07	
Merphos	ND	5.0	5.0	1	B1L0883	12/27/2011	12/28/11 16:07	
Surrogate: Tributyl Phosphate	*93.9 %*		*36 - 131*		B1L0883	12/27/2011	*12/28/11 16:07*	
Surrogate: Triphenyl Phosphate	*67.0 %*		*38 - 126*		B1L0883	12/27/2011	*12/28/11 16:07*	

Department of Toxic Substances Control		Project Number :	11AT0085
Environmental Chemistry Laboratory		Report To :	Juliet Tabajonda
Berkeley , CA 94710		Reported :	01/18/2012

Client Sample ID WEI-UT06

Lab ID: 1100778-06

Cyanide, Total by EPA 9014 **Analyst: AG**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Cyanide, Total	ND	0.25	0.16	1	B2A0078	12/27/2011	12/28/11 08:36	

Department of Toxic Substances Control	Project Number : 11AT0085
Environmental Chemistry Laboratory	Report To : Juliet Tabajonda
Berkeley , CA 94710	Reported : 01/18/2012

QUALITY CONTROL SECTION

Organophosphorous Pesticides by EPA 8141 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1L0883 - GCSEMI_OPEST									
Blank (B1L0883-BLK1)					Prepared: 12/27/2011 Analyzed: 12/28/2011				
Azinphosmethyl	ND	5.0			NR				
Azinphosmethyl [2C]	ND	5.0			NR				
Bolstar	ND	5.0			NR				
Bolstar [2C]	ND	5.0			NR				
Chlorpyrifos	ND	5.0			NR				
Chlorpyrifos [2C]	ND	5.0			NR				
Coumaphos	ND	5.0			NR				
Coumaphos [2C]	ND	5.0			NR				
Demeton-O	ND	5.0			NR				
Demeton-O [2C]	ND	5.0			NR				
Demeton-S	ND	5.0			NR				
Demeton-S [2C]	ND	5.0			NR				
Diazinon	ND	5.0			NR				
Diazinon [2C]	ND	5.0			NR				
Dichlorvos	ND	5.0			NR				
Dichlorvos [2C]	ND	5.0			NR				
Disulfoton	ND	5.0			NR				
Disulfoton [2C]	ND	5.0			NR				
Ethoprop	ND	5.0			NR				
Ethoprop [2C]	ND	5.0			NR				
Fensulfothion	ND	5.0			NR				
Fensulfothion [2C]	ND	5.0			NR				
Fenthion	ND	5.0			NR				
Fenthion [2C]	ND	5.0			NR				
Malathion	ND	5.0			NR				
Malathion [2C]	ND	5.0			NR				
Mevinphos	ND	5.0			NR				
Mevinphos [2C]	ND	5.0			NR				
Naled	ND	5.0			NR				
Naled [2C]	ND	5.0			NR				
Parathion, methyl	ND	5.0			NR				
Parathion, methyl [2C]	ND	5.0			NR				
Phorate	ND	5.0			NR				
Phorate [2C]	ND	5.0			NR				
Ronnel	ND	5.0			NR				
Ronnel [2C]	ND	5.0			NR				
Tetrachlorvinphos	ND	5.0			NR				
Tetrachlorvinphos [2C]	ND	5.0			NR				
Tokuthion	ND	5.0			NR				

Department of Toxic Substances Control		Project Number :	11AT0085
Environmental Chemistry Laboratory		Report To :	Juliet Tabajonda
Berkeley , CA 94710		Reported :	01/18/2012

Organophosphorous Pesticides by EPA 8141 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1L0883 - GCSEMI_OPEST (continued)									
Blank (B1L0883-BLK1) - Continued				Prepared: 12/27/2011 Analyzed: 12/28/2011					
Tokuthion [2C]	ND	5.0			NR				
Trichloronate	ND	5.0			NR				
Trichloronate [2C]	ND	5.0			NR				
Merphos	ND	5.0			NR				
Merphos [2C]	ND	5.0			NR				
Surrogate: Tributyl Phosphate	*26*		*33.3*		*77.0*	*36 - 131*			
Surrogate: Triphenyl Phosphate	*25*		*33.3*		*76.4*	*38 - 126*			
LCS (B1L0883-BS1)				Prepared: 12/27/2011 Analyzed: 12/28/2011					
Azinphosmethyl	25	5.0	33.3		74.0	50 - 150			
Bolstar	22	5.0	33.3		67.5	59 - 130			
Chlorpyrifos	23	5.0	33.3		68.4	57 - 129			
Coumaphos	23	5.0	33.3		69.5	61 - 122			
Demeton-O	23	5.0	33.3		68.3	50 - 111			
Demeton-S	22	5.0	33.3		66.4	41 - 116			
Diazinon	22	5.0	33.3		65.6	57 - 120			
Dichlorvos	24	5.0	33.3		70.9	54 - 123			
Disulfoton	22	5.0	33.3		67.0	50 - 150			
Ethoprop	22	5.0	33.3		66.6	62 - 118			
Fensulfothion	24	5.0	33.3		70.7	54 - 124			
Fenthion	23	5.0	33.3		68.1	50 - 150			
Malathion	22	5.0	33.3		67.5	57 - 129			
Mevinphos	24	5.0	33.3		70.7	46 - 122			
Naled	21	5.0	33.3		62.2	41 - 133			
Parathion, methyl	23	5.0	33.3		67.7	54 - 138			
Phorate	23	5.0	33.3		67.6	50 - 118			
Ronnel	23	5.0	33.3		68.3	55 - 127			
Tetrachlorvinphos	25	5.0	33.3		74.9	62 - 137			
Tokuthion	22	5.0	33.3		67.0	58 - 124			
Trichloronate	23	5.0	33.3		69.0	59 - 128			
Merphos	22	5.0	66.7		33.5	41 - 195			
Surrogate: Tributyl Phosphate	*22*		*33.3*		*67.2*	*36 - 131*			
Surrogate: Triphenyl Phosphate	*22*		*33.3*		*67.1*	*38 - 126*			
Matrix Spike (B1L0883-MS1)		**Source: 1100778-01**		Prepared: 12/27/2011 Analyzed: 12/29/2011					
Azinphosmethyl	16	5.0	33.3	ND	46.9	42 - 121			
Bolstar	24	5.0	33.3	ND	72.9	45 - 130			
Chlorpyrifos	22	5.0	33.3	ND	64.7	44 - 112			
Coumaphos	23	5.0	33.3	ND	67.6	44 - 125			
Demeton-O	15	5.0	33.3	ND	45.2	37 - 100			
Demeton-S	15	5.0	33.3	ND	45.1	26 - 100			

Department of Toxic Substances Control	Project Number : 11AT0085
Environmental Chemistry Laboratory	Report To : Juliet Tabajonda
Berkeley , CA 94710	Reported : 01/18/2012

Organophosphorous Pesticides by EPA 8141 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1L0883 - GCSEMI_OPEST (continued)									
Matrix Spike (B1L0883-MS1) - Continued		**Source: 1100778-01**		Prepared: 12/27/2011 Analyzed: 12/29/2011					
Diazinon	21	5.0	33.3	ND	62.9	43 - 107			
Dichlorvos	1.1	5.0	33.3	0.0	3.20	24 - 119			M2, J
Disulfoton	13	5.0	33.3	ND	39.0	36 - 107			
Ethoprop	22	5.0	33.3	ND	65.1	43 - 112			
Fensulfothion	17	5.0	33.3	ND	51.1	38 - 103			
Fenthion	20	5.0	33.3	ND	60.6	43 - 125			
Malathion	20	5.0	33.3	ND	59.9	45 - 111			
Mevinphos	5.0	5.0	33.3	ND	15.0	28 - 111			M2
Naled	ND	5.0	33.3	ND	NR	14 - 93			M2
Parathion, methyl	18	5.0	33.3	ND	54.1	45 - 119			
Phorate	17	5.0	33.3	ND	51.5	45 - 104			
Ronnel	17	5.0	33.3	ND	51.3	41 - 113			
Tetrachlorvinphos	18	5.0	33.3	ND	53.1	44 - 130			
Tokuthion	31	5.0	33.3	ND	93.3	52 - 104			
Trichloronate	20	5.0	33.3	ND	60.0	52 - 111			
Merphos	ND	5.0	66.7	ND	NR	43 - 173			M2
Surrogate: Tributyl Phosphate	*25*		*33.3*		*75.4*	*36 - 131*			
Surrogate: Triphenyl Phosphate	*26*		*33.3*		*79.5*	*38 - 126*			
Matrix Spike Dup (B1L0883-MSD1)		**Source: 1100778-01**		Prepared: 12/27/2011 Analyzed: 12/29/2011					
Azinphosmethyl	14	5.0	33.3	ND	43.0	42 - 121	8.68	20	
Bolstar	26	5.0	33.3	ND	79.2	45 - 130	8.28	20	
Chlorpyrifos	24	5.0	33.3	ND	70.9	44 - 112	9.14	20	
Coumaphos	25	5.0	33.3	ND	76.2	44 - 125	12.0	20	
Demeton-O	16	5.0	33.3	ND	48.6	37 - 100	7.25	20	
Demeton-S	17	5.0	33.3	ND	49.8	26 - 100	9.91	20	
Diazinon	22	5.0	33.3	ND	67.1	43 - 107	6.46	20	
Dichlorvos	1.1	5.0	33.3	0.0	3.40	24 - 119	6.06	20	J, M2
Disulfoton	13	5.0	33.3	ND	39.9	36 - 107	2.28	20	
Ethoprop	24	5.0	33.3	ND	71.8	43 - 112	9.79	20	
Fensulfothion	18	5.0	33.3	ND	55.0	38 - 103	7.35	20	
Fenthion	20	5.0	33.3	ND	60.5	43 - 125	0.165	20	
Malathion	21	5.0	33.3	ND	63.3	45 - 111	5.52	20	
Mevinphos	5.1	5.0	33.3	ND	15.2	28 - 111	1.32	20	M2
Naled	ND	5.0	33.3	ND	NR	14 - 93		20	M2
Parathion, methyl	19	5.0	33.3	ND	57.4	45 - 119	5.92	20	
Phorate	21	5.0	33.3	ND	64.4	45 - 104	22.3	20	M2
Ronnel	18	5.0	33.3	ND	54.2	41 - 113	5.50	20	
Tetrachlorvinphos	17	5.0	33.3	ND	50.1	44 - 130	5.81	20	
Tokuthion	33	5.0	33.3	ND	97.7	52 - 104	4.61	20	
Trichloronate	22	5.0	33.3	ND	64.7	52 - 111	7.54	20	

Department of Toxic Substances Control		Project Number :	11AT0085
Environmental Chemistry Laboratory		Report To :	Juliet Tabajonda
Berkeley , CA 94710		Reported :	01/18/2012

Organophosphorous Pesticides by EPA 8141 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1L0883 - GCSEMI_OPEST (continued)									
Matrix Spike Dup (B1L0883-MSD1) - Continued		**Source: 1100778-01**		Prepared: 12/27/2011 Analyzed: 12/29/2011					
Merphos	ND	5.0	66.7	ND	NR	43 - 173		20	M2
Surrogate: Tributyl Phosphate	*26*		*33.3*		*78.7*	*36 - 131*			
Surrogate: Triphenyl Phosphate	*29*		*33.3*		*86.5*	*38 - 126*			

Department of Toxic Substances Control		Project Number :	11AT0085
Environmental Chemistry Laboratory		Report To :	Juliet Tabajonda
Berkeley , CA 94710		Reported :	01/18/2012

Cyanide, Total by EPA 9014 - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2A0078 - Prep_WC_3_S									
Blank (B2A0078-BLK1)				Prepared: 12/27/2011 Analyzed: 12/28/2011					
Cyanide, Total	ND	0.25			NR				
LCS (B2A0078-BS1)				Prepared: 12/27/2011 Analyzed: 12/28/2011					
Cyanide, Total	10	0.25	10.0		100	80 - 120			
Duplicate (B2A0078-DUP1)		**Source: 1100778-04**		Prepared: 12/27/2011 Analyzed: 12/28/2011					
Cyanide, Total	0.35	0.25		0.30	NR		15	20	
Matrix Spike (B2A0078-MS1)		**Source: 1100778-04**		Prepared: 12/27/2011 Analyzed: 12/28/2011					
Cyanide, Total	10	0.25	10.0	0.30	98	80 - 120			
Matrix Spike Dup (B2A0078-MSD1)		**Source: 1100778-04**		Prepared: 12/27/2011 Analyzed: 12/28/2011					
Cyanide, Total	11	0.25	10.0	0.30	105	80 - 120	7	20	

Department of Toxic Substances Control		Project Number :	11AT0085
Environmental Chemistry Laboratory		Report To :	Juliet Tabajonda
Berkeley , CA 94710		Reported :	01/18/2012

Notes and Definitions

M2	Matrix spike recovery outside of acceptance limit due to possible matrix interference. The analytical batch was validated by the laboratory control sample.
J	Analyte detected below the Practical Quantitation Limit but above or equal to the Method Detection Limit. Result is an estimated concentration.
ND	Analyte not detected at or above reporting limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

State of California
California Environmental Protection Agency

Department of Toxic Substances Control
Environmental Chemistry Laboratory

ENVIRONMENTAL CHEMISTRY LABORATORY SAMPLE ANALYSIS REQUEST

1. Authorization Number:

ECL No.: To

2. Page 1 of 1

3. Requestor: (to Receive Results) a. Name: Greg Neal
b. Address: 5796 Corporate Avenue (street number)
Cypress Ca 90630 (city, state, zip)
c. Phone: 7144845455 (area code first) d. Fax: 7144845411 (area code first)
e. Email: gneal@dtsc.ca.gov @dtsc.ca.gov

4. Project Name (if applicable): WEI Mecca

5. TAT Level: 2

6. Sampling Information: a. Date/Time Sampled: 12/14-12/16/11 (mm/dd/yy) (#:## AM/PM)
b. Location: EPA ID No.
Site: WEI Mecca
Address: 62-150 Gene Welmas Ave (street number)
Mecca Ca (city, state, zip)
GPS-Lat: GPS-Long:
GPS-Alt: GPS-Depth:

7. Codes (select from drop down list or fill in if applicable)
a. Unit
b. INDEX
c. PCA 36195
d. MPC 962
e. SITE 551115-48
f. County Riverside

8. Samples:

a. ID	b. Collector's No.	c. ECL No.	d. Matrix	e. Container Size	f. Number of containers	g. Preservative / Field Information
1	WEI-GL03-NE		Soil	3-8oz 2-4oz 3-VOA	8 12/14 10:04	ICE Methanol Sodium Bisulfate
2	WEI-GL07-NW		Soil	3-8oz 2-4oz 3-VOA	12/14 12/14 16	ICE Methanol Sodium Bisulfate
~~3 NW~~	~~WEI-GL07-NW DUP~~		~~Soil~~	~~3-8oz 2-4oz 3-VOA~~	~~8~~	~~ICE Methanol Sodium Bisulfate~~
4	WEI-GL16-SW		soil	3-8oz 2-4oz 3 VOA	8 12/15 9:04	ICE Methanol Sodium Bisulfate
5	WEI-GL20-W		soil	3-8oz 2-4oz 3 VOA	8 12/15 3:24	ICE Methanol Sodium Bisulfate
6	WEI-UT03		soil	3-8oz 2-4oz 3 VOA	8 12/14 01:28	ICE Methanol Sodium Bisulfate
7	WEI-UT06		soil	3-8oz 2-4oz 3 VOA	8 12/14 11:07	ICE Methanol Sodium Bisulfate
8	WEI-Blank		liquid	3 VOA	3	Methanol Sodium Bisulfate
9						

9. Analysis Requested: Enter sample IDs and sample ID ranges separated by commas: For example, 1-3, 5-7, 9

a. Inorganic Analysis	Sample(s) ID	b. Organic Analysis	Sample(s) ID
· Cyanide	1,2,4,5,6,7,	· Chlorinated Pesticides	1,2,4,5,6,7
· Mercury	1,2,4,5,6,7,	· Organo ~~Phosphate~~ Pesticides	1,2,4,5,6,7
· Metals	1,2,4,5,6,7	· VOCs	1,2,4,5,6,7,8
· pH	1,2,4,5,6,7	· PCBs	1,2,4,5,6,7
· Hexavalent Chromium	1,2,4,5,6,7	· SVOCs	1,2,4,5,6,7
		· PAHs	1,2,4,5,6,7
		· Dioxins/furans	1,2,4,5,6,7
Other Metals:			

c. TCLP Analysis		d. Other Analysis
Metals only if necessary	1,2,4,5,6,7	
Mercury only if necessary	1,2,4,5,6,7	

e. Comments for Multiphasic Samples/Analysis Priority:

10. Analysis Objective: Human Health Risk

11. Detection Limit Requirements: (Check ECL User's Manual to assure default DL is sufficient.)
Lowest Achievable

12. Supplemental Requests: Enter sample IDs as described in Item 9

Desired Analysis	Sample(s) ID

Initials
Date

13. ECL Lab Remarks:

14. Chain of Custody:

	Name	Title	Signature	Inclusive Dates of Custody		
a.	Greg Neal	Geologist	Greg Neal	12/14/11	to	12/16/11
b.	Alfredo Zamoria	Geologist	[illegible]	12/16/11	to	12/19/11
c.	Greg Neal	Geologist	Greg Neal	12/19/11	to	12/19/11
d.	Barbara Bush	Lab Tech	Barbara Bush	12/19/11	to	12/19/11
e.	Mary	Lab Tech	[illegible]	12/20/11 9:57	to	
f.					to	
g.					to	

FIELD

LAB

ECL

COC

3.2

B.

ECL 02 (REV 01/11)

Make Photocopies for Your File

F.C.L.V

State of California
California Environmental Protection

Department of Toxic Substances Control
Environmental Chemistry Laboratory

SUPPLEMENTAL ☐
(Check if Supplemental Requested)

AUTHORIZATION REQUEST FORM (ARF)

PART A : (By Requestor - PLEASE PRINT)

Unit chief's signature required: (for Rush or TAT Level = 1)

Turnaround Time (TAT): *Rush ☐ *Level 1 ☐ 2 ☑ 3 ☐

Requestor's Name	Greg Neal	Email	gneal	@dtsc.ca.gov	Phone (714) 484-5455
Region	04--Cypress	Unit	BERP-Engineering & Geology		Fax (714) 484-5411
Back-up Requestor	Alfredo Zanoria				Phone (714) 484-5422
Site Name	Western Environmental Inc - Mecca				AREA CODE

PART B: Analytical Requests (By Requestor) (Lab uses default methods listed below. Please specify all other requests.)

Inorganic Analysis	Number of Samples/Type Solid	Liquid	Water	Other
% Dry Solids (ECL730-S)				
Acidity (305-1)				
Alkalinity (310-1)				
Anions by IC (9056)				
Chromium VI(Cr^{6+}) by Colorimetric (7196A)				
Chromium VI(Cr^{6+}) in Water by IC (7199)				
Cyanides for Wastes,Leachates (9010B)	10			
Hardness (130-2)				
Mercury(Hg) in (Semi)Solid Waste (7471A)				
Mercury(Hg) in Liquid Waste (7470A)				
Metals Screening by XRF				
Metals Scan (6010B, for As,Ba,Cu,Pb, etc)				
Metals Scan (for Drinking water, 6020A)				
OrganoLead in Waste (ECL938-M)				
Particle Size (ECL740-S)				
Perchlorate for Soil,Sludge (ECL955-M)				
Perchlorate for Water (314-0)				
pH (9040B, 9045C)				
Total Dissolved Solids (160-1)				
WET(ECL910-S) ☐ Only if necessary ☐ Do it regardless				
(others, type in)				

Organic Analysis	Number of Samples/Type Solid	Liquid	Water	Other
GRO (Gasoline, 8015B)				
DRO(Diesel) only (ECL816-M)				
Motor Oil only (ECL816-M)				
DRO(Diesel) & Motor Oil (ECL816-M)				
EthyleneGlycol (ECL772-M)				
PBDEs (ECL750-M)				
PCBs (8082)				
Pesticides - Chlorinated (8081A)				
Pesticides - Organophosphate (8141A)	10			
1,4-Dioxane (ECL830-S)				
GC/MS Semivolatiles (8270C)				
Volatiles (8260B)				
HPLC Carbonyl Compounds (8315A)				
Explosives (8330)				
PAHs (8310)				
Dioxins/Furans by HRGC/HRMS (ECL880-M)				
Flash Point (1020A)				
n-Hexane Extractables/TPH (1664)				
TXO-Total Halogens in Oil (ECL792-S)				
(others, type in)				
(others, type in)				

TCLP Analysis**		
Metals	☐ Only if necessary	☐ Do it regardless
Mercury	☐ Only if necessary	☐ Do it regardless
Volatiles	☐ Only if necessary	☐ Do it regardless
Semivolatiles	☐ Only if necessary	☐ Do it regardless
(others, type in)		

Other Analysis
Fish Bioassay (Title 22)
Congener PCBs (ECL-CG-PCB)
Congener PBDEs (ECL-CG-PBDE)
(others,type in)
(others, type in)

Analysis Objective: Site Characterization

Special Instructions or Comments (For Example: Detection Limit, Sample Preparation, Extraction..., etc.):

Lowest achieveable DLs. Dioxins/furans by EPA 8290 if DL is lower than ECL method. Cyanide by 9010 if DL is lower than 9014.

Expected Sample Arrival Date: 12/16/11 (mm/dd/yy)

PART C : (By SMO - ECL)

Authorization Number (AN): **11AT0085**

ARF's Revision No. Initials: Date:

Lab to Receive Sample(s): Advanced Technology Labs, 3275 Walnut Avenue, Signal Hill, CA 90755, Attn: Diane Galvin (562)989-4045

ARF's Revision No. Initials: Date:

Sample Management Officer (SMO): [signature]

☐ Check box if cancelled
Initials: Date:

Today's Date: 12/09/11 (mm/dd/yy) Expiration Date: 12/26/11 (mm/dd/yy)

If Sample(s) Directed to Contract Lab, Please Specify:

Reason:

ECL Personnel Confirmed:

ECL Contract Lab Manager Notification (for Rush or TAT Level =1):

Turnaround Time (TAT): * Rush for public health and safety or emergency, *Level 1 = 15 days, 2 = 30 days, 3 = 45 days.
**TCLP If time permits and sample matrix type is appropriate, lab may analyze or screen the sample(s) first to determine if TCLP is needed.
Reference: ECL User's Manual.

ADVANCED TECHNOLOGY LABORATORIES

Sample Receipt Acknowledgement

Work Order # 1100778

Client:	**Department of Toxic Substances Control**	**Project Manager:**	**Diane Galvan**
Project:	**11AT0085**	**Project Number:**	**11AT0085**

Report To:
Department of Toxic Substances Control
Juliet Tabajonda
Hazardous Materials Lab
Berkeley, CA 94710
Phone: (510) 540-3746
Fax: (510) 540-2305

Invoice To:
Department of Toxic Substances Control
Juliet Tabajonda
Hazardous Materials Lab
Berkeley, CA 94710
Phone :(510) 540-3746
Fax: (510) 540-2305

Date Due:	12/30/11 17:30 (7 day TAT)	Date Received:	12/20/11 09:57
Received By:	Ron Diwa	Date Logged In:	12/22/11 11:32
Logged In By:	Ron Diwa	Shipped by:	FEDEX

Please review the checklist below. Any NO response signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed a as requested regardless of any compliance issues. If you have any questions or further instructions, please contact your Project Manager at (526) 989-4045.

Sample(s) received on ice?	Yes	☐	No	☑
Sample(s) received on blue ice?	Yes	☑	No	☐
Cooler temperature within acceptance limit?	Yes	☑	No	☐
Shipping container received in good condition?	Yes	☑	No	☐
Custody seals present on shipping container?	Yes	☐	No	☑
Custody seals intact on shipping container?	Yes	☐	No	☑
Custody seals present on sample bottles?	Yes	☐	No	☑
Custody seals intact on sample bottles?	Yes	☐	No	☑
Chain of Custody (COC) present?	Yes	☑	No	☐
Sampler name present in COC?	Yes	☑	No	☐
COC signed when relinquished and received?	Yes	☑	No	☐
COC agrees with sample labels?	Yes	☑	No	☐
Samples in proper container/bottle?	Yes	☑	No	☐
Sample containers intact?	Yes	☑	No	☐
Sufficient sample amount for indicated tests?	Yes	☑	No	☐
All samples received within holding time?	Yes	☑	No	☐
VOA vials for VOC meet headspace criteria?	Yes	☐	No	☑
Water samples meet preservation criteria?	Yes	☐	No	☑

Default Cooler	Temp: 3.2 °C

Sample Receipt Comments:
Date of collection was based on sample containers.

FedEx Express **NEW** Package US Airbill

FedEx Tracking Number 8768 1923 1424

Form ID No. 0200

1 From

Date

Sender's Name

Phone

Company

Address

Dept./Floor/Suite/Room

City

State

ZIP

2 Your Internal Billing Reference

3 To

Recipient's Name

Phone

Company

Address

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City

State

ZIP

HOLD Weekday
FedEx location address REQUIRED. **NOT available for** FedEx First Overnight.

HOLD Saturday
FedEx location address REQUIRED. **Available ONLY for** FedEx Priority Overnight and FedEx 2Day to select locations.

8768 1923 1424

4 Express Package Service * To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs.
For packages over 150 lbs., use the new FedEx Express Freight US Airbill.

Next Business Day

- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [x] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- [ ] **NEW** FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

- [ ] FedEx Envelope*
- [ ] FedEx Pak*
- [ ] FedEx Box
- [ ] FedEx Tube
- [ ] Other

6 Special Handling and Delivery Signature Options

- [ ] SATURDAY Delivery — **NOT available for** FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.
- [x] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. ***Fee applies.***
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. ***Fee applies.***

Does this shipment contain dangerous goods?

One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

- [ ] Cargo Aircraft Only

7 Payment ***Bill to:***

Enter FedEx Acct. No. or Credit Card No. below.

Other Acct. No.

- [x] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Total Packages ____ Total Weight ____ lbs. Total Declared Value† $ ____ .00 Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

612

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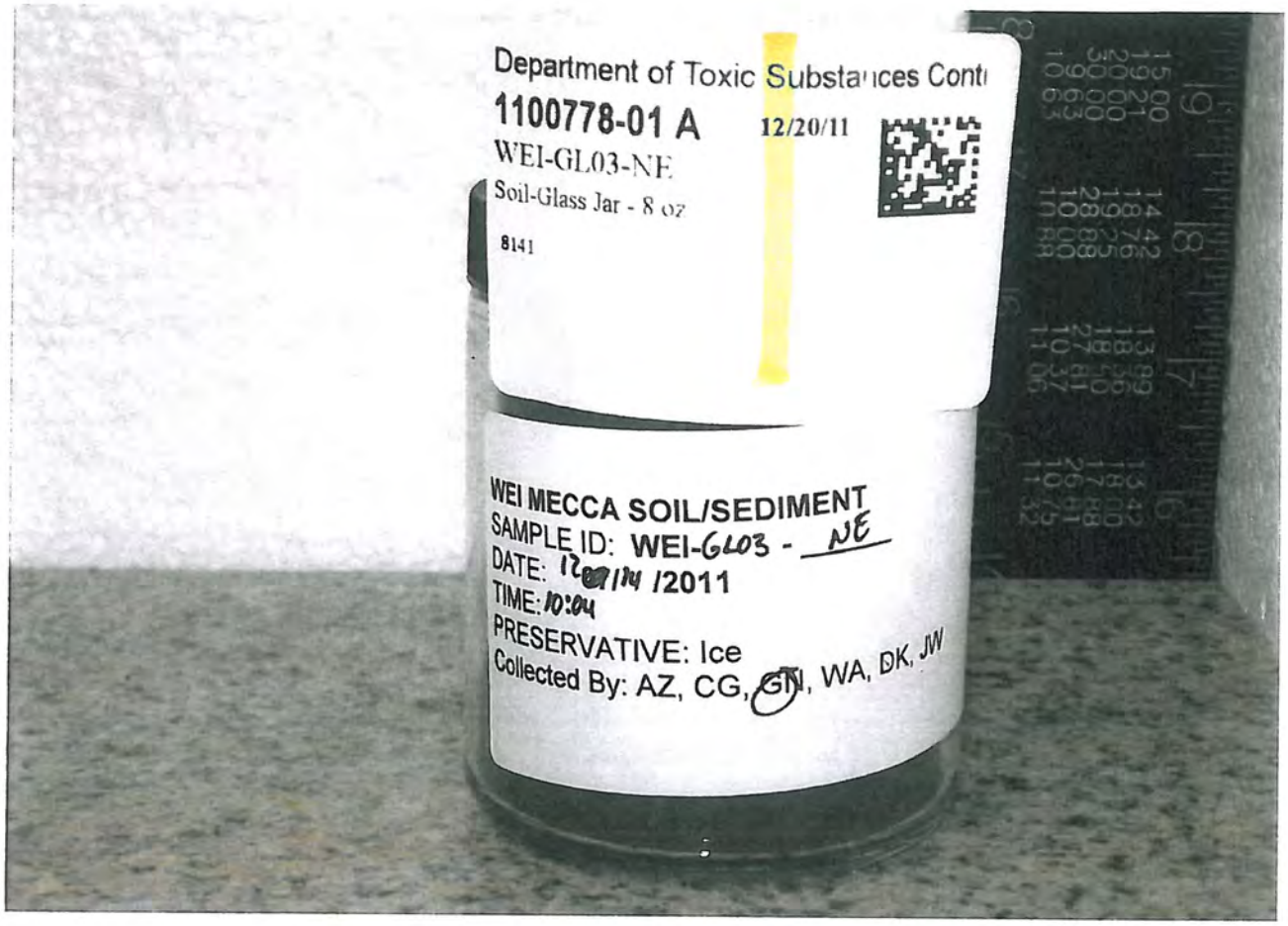
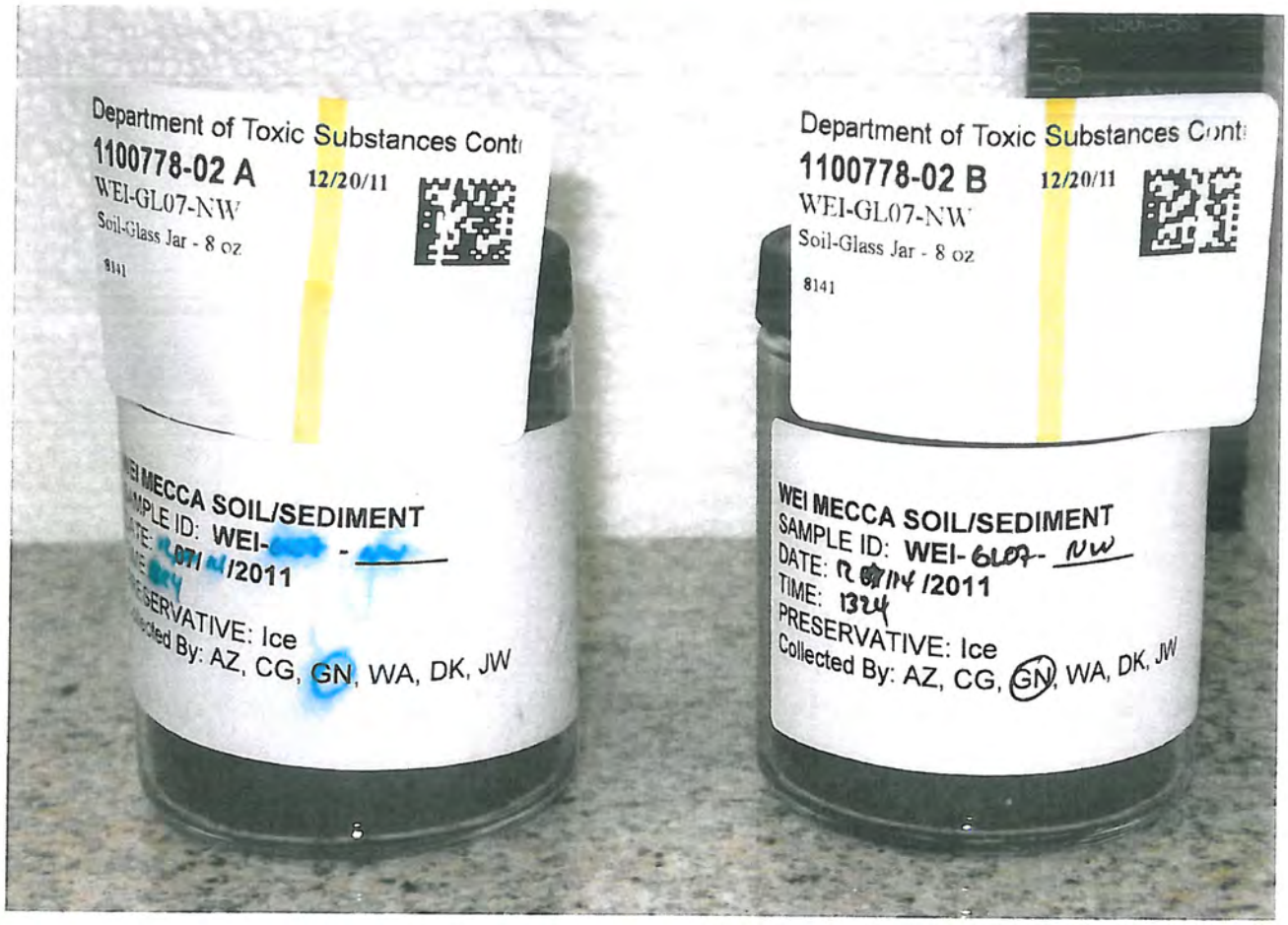
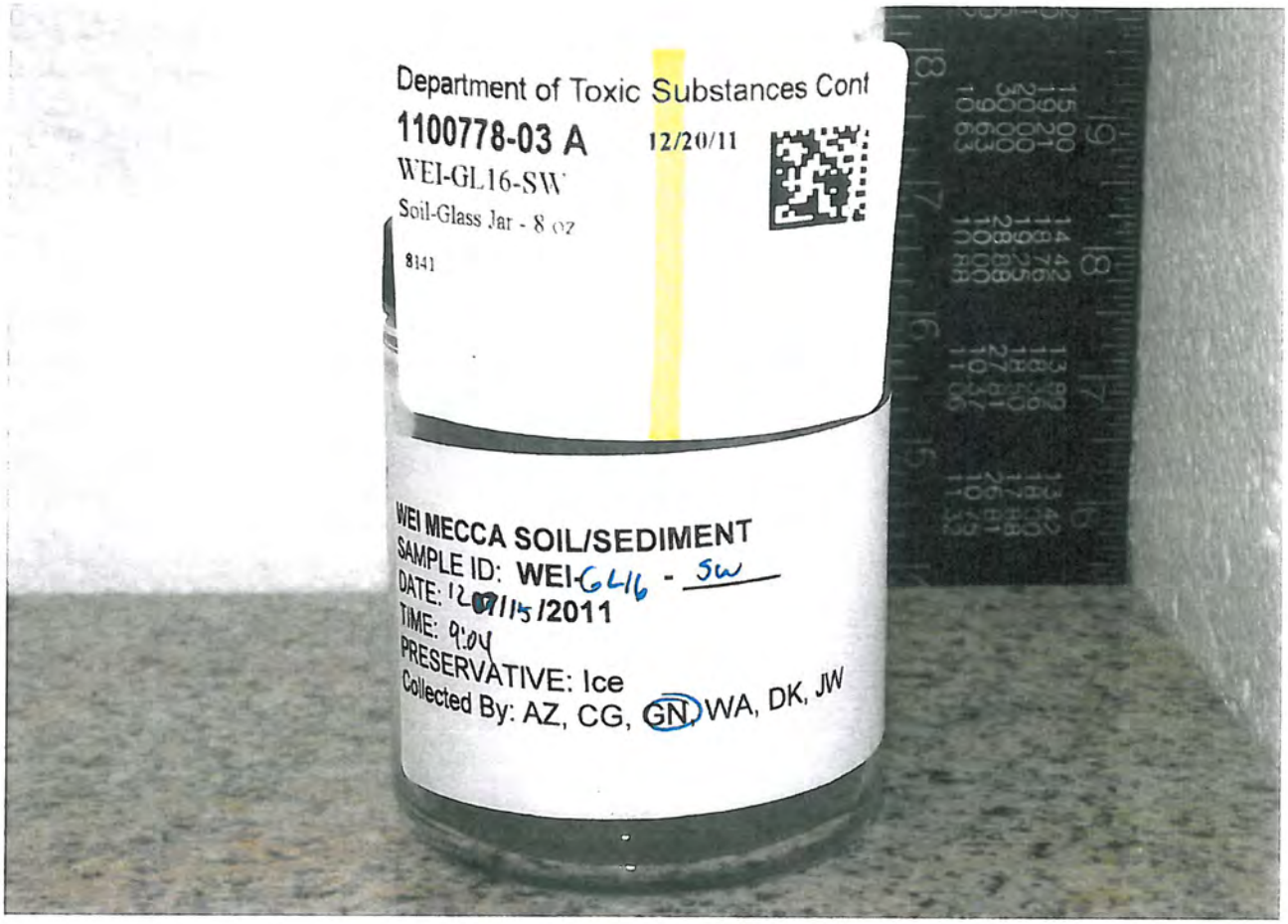
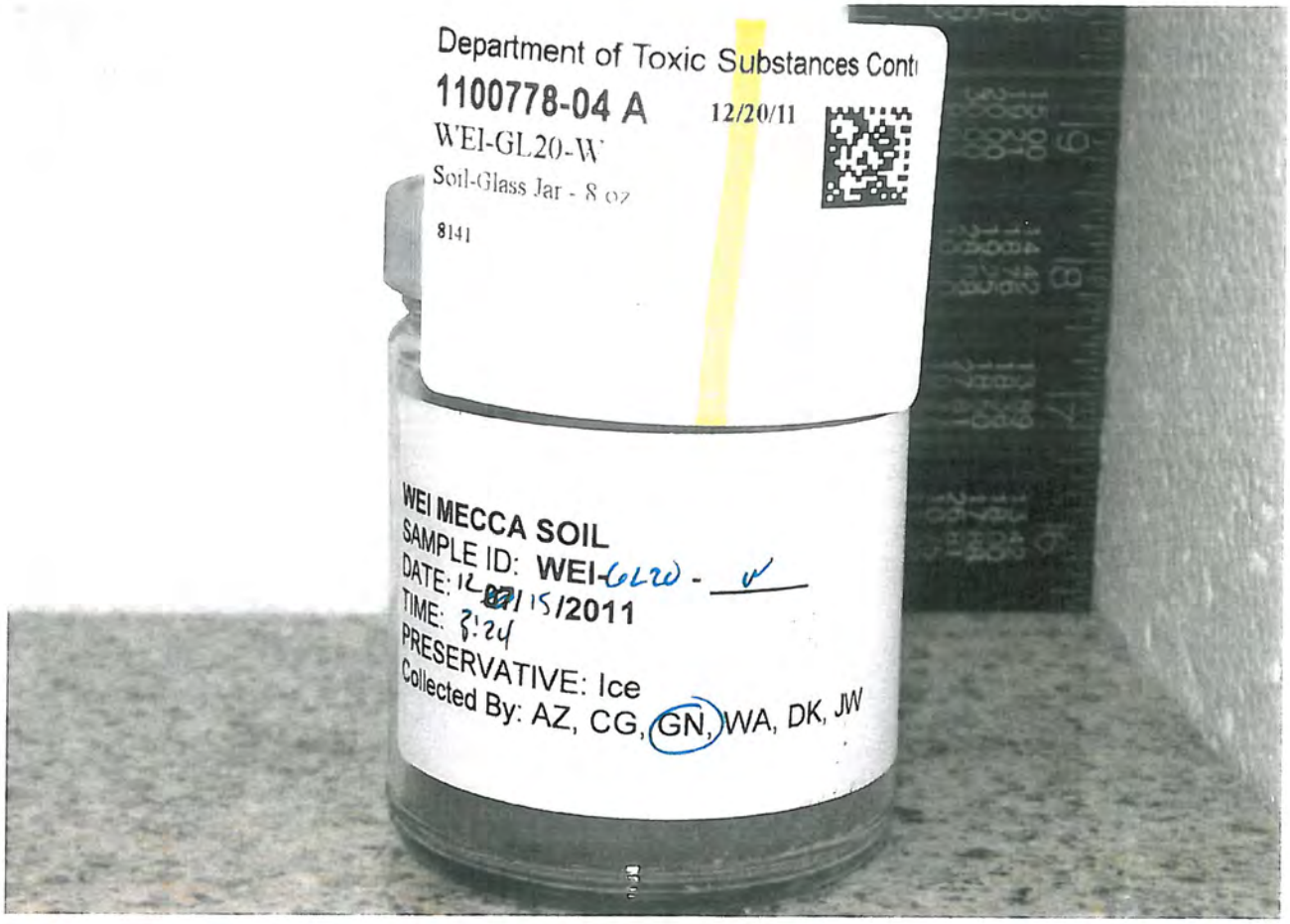
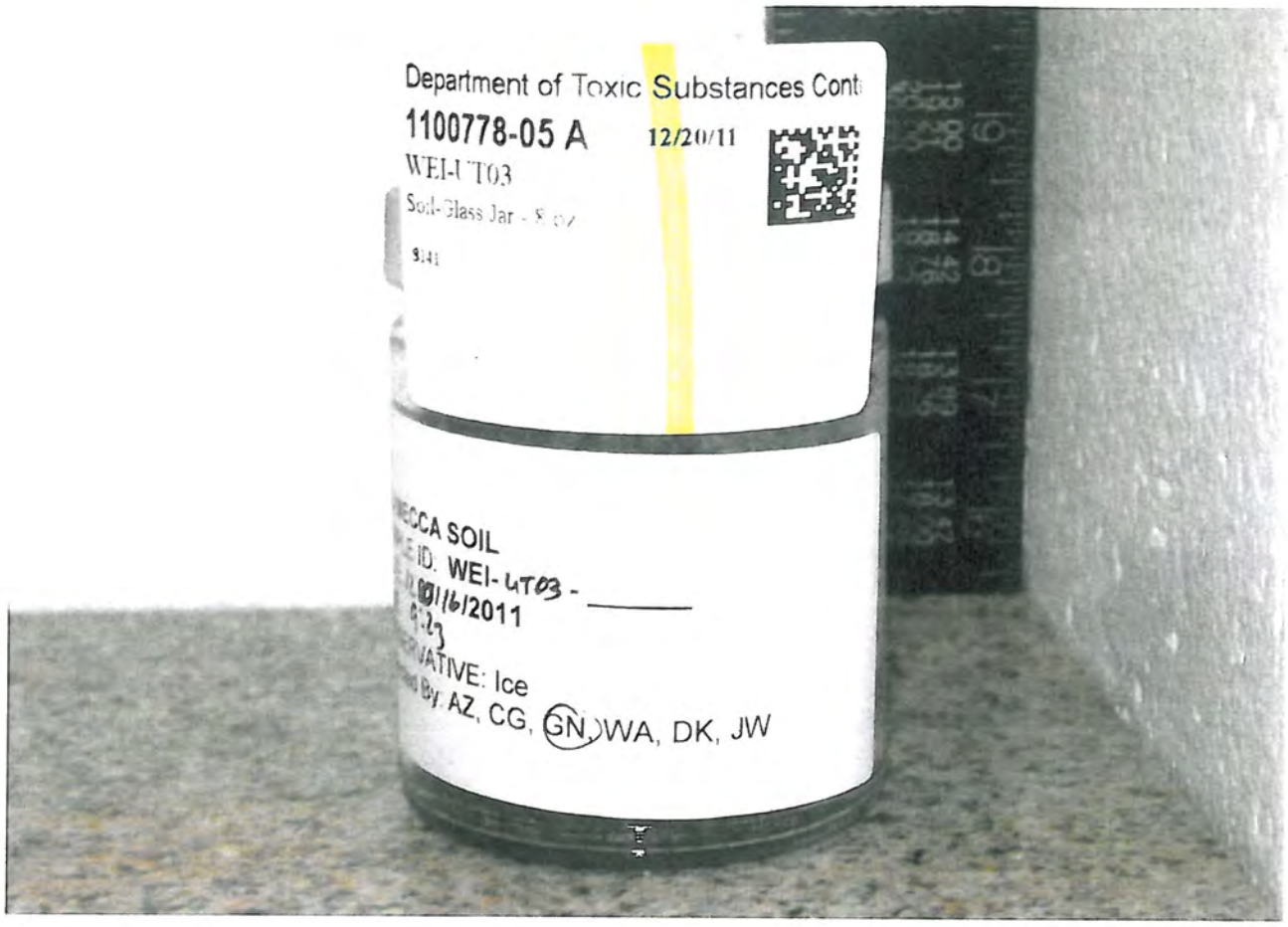
fedex.com 1.800.GoFedEx 1.800.463.3339

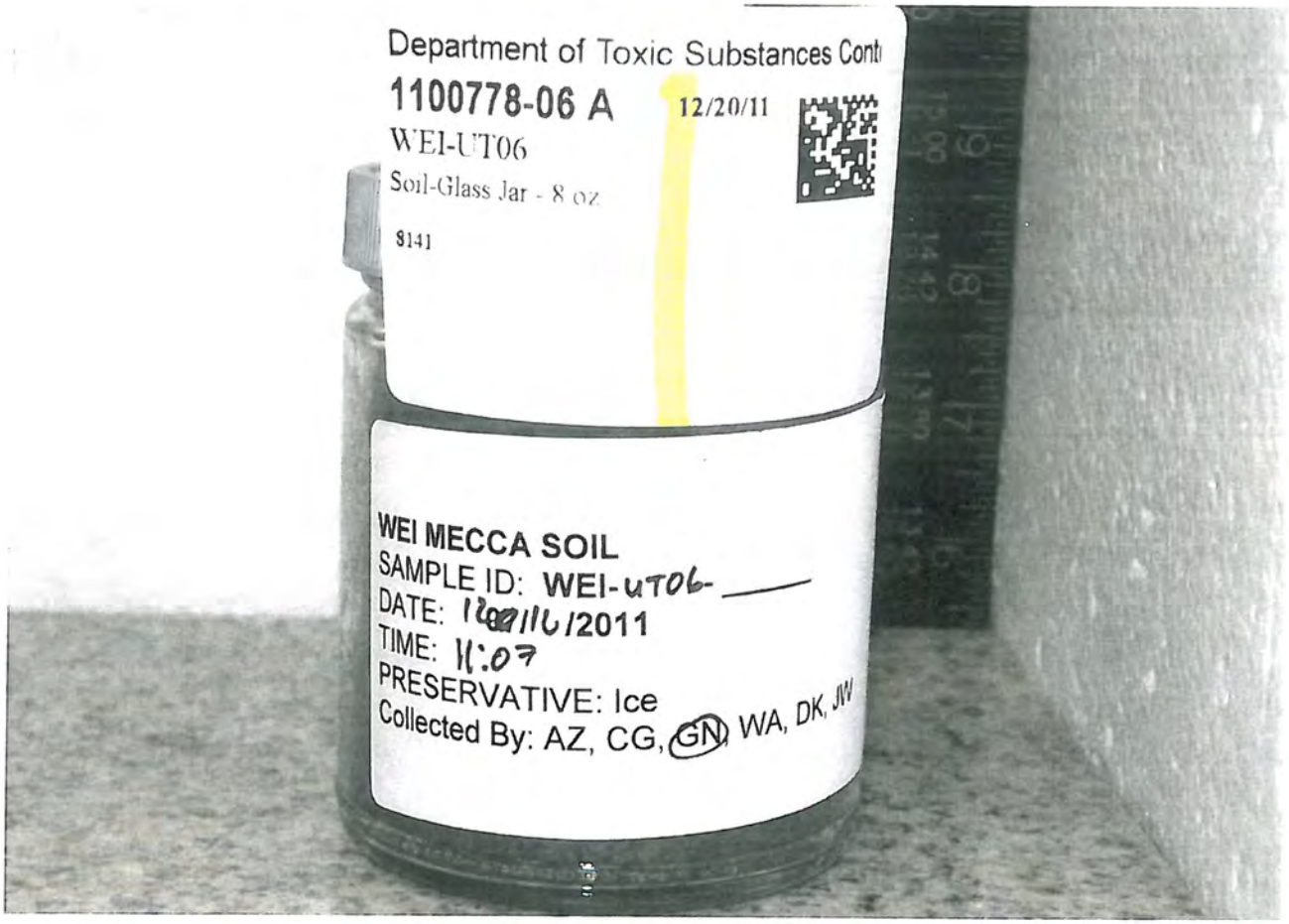

Department of Toxic Substances Cont
1100778-01 A
12/20/11
WEI-GL03-NE
Soil-Glass Jar - 8 oz
8141
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-GL03 - NE
DATE: 12/14 /2011
TIME: 10:04
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK, JW


Department of Toxic Substances Cont
1100778-02 A
12/20/11
WEI-GL07-NW
Soil-Glass Jar - 8 oz
8141
MECCA SOIL/SEDIMENT
/2011
SERVATIVE: Ice
By: AZ, CG, GN, WA, DK, JW
Department of Toxic Substances Cont
1100778-02 B
12/20/11
WEI-GL07-NW
Soil-Glass Jar - 8 oz
8141
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-GL07- NW
DATE: 12/14 /2011
TIME: 1324
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK, JW


Department of Toxic Substances Cont
1100778-03 A
12/20/11
WEI-GL16-SW
Soil-Glass Jar - 8 oz
8141
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-GL16 - SW
DATE: 12/15/2011
TIME: 9:04
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK, JW


Department of Toxic Substances Cont
1100778-04 A
12/20/11
WEI-GL20-W
Soil-Glass Jar - 8 oz
8141
WEI MECCA SOIL
SAMPLE ID: WEI-GL20 - W
DATE: 12/15/2011
TIME: 8:24
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK, JW


Department of Toxic Substances Cont
1100778-05 A
12/20/11
WEI-UT03
Soil-Glass Jar - 8 oz
8141
ECCA SOIL
E ID: WEI-UT03 -
11/6/2011
ATIVE: Ice
By: AZ, CG, GN, WA, DK, JW


Department of Toxic Substances Cont
1100778-06 A
12/20/11
WEI-UT06
Soil-Glass Jar - 8 oz
8141
WEI MECCA SOIL
SAMPLE ID: WEI-UT06-
DATE: 11/6/2011
TIME: 11:07
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK, JW

California Environmental Protection Agency
Department of Toxic Substances Control
Environmental Chemistry Laboratory
700 Heinz Avenue, Suite 100, Berkeley, CA 94710
Telephone: (510) 540-3003

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

LABORATORY REPORT---POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC

Authorization No. : 11EC0085
ECL No.: AV01592-AV01597

Requestor's Name: Greg Neal
Address: 5706 Corporate Ave., Cypress, CA 90630

Sampling Location: WEI Mecca
62-150 Gene Welmos Ave, Mecca, CA

Table of Contents

	Page Number
Case Narrative	2
Analytical Reports	3-6
Authorization Form	7
Sample Analysis Request	8
Sample Receipt and Photos	9-15

The results listed within this report pertain only to the samples tested in the laboratory. These results have been reviewed for technical correctness and completeness. This report was reviewed and approved for release.

Report Reviewed by: Carol Whitlem
QA Chemist or Designee
Date 1/31/2012

Report Approved by: John Quinn
John Quinn Ph.D, Section Chief
Date 1/31/2012

California Environmental Protection Agency
Department of Toxic Substances Control

Environmental Chemistry Laboratory
700 Heinz Avenue, Suite 100, Berkeley, CA 94710
Telephone: (510) 540-3003

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

LABORATORY REPORT---POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC

Authorization No. : 11EC0085 **Priority:** 2

ECL No.: AV01592-AV01597 **Page:** 2 of 15

1. Sampling Location: WEI Mecca
   62-150 Gene Welmos Ave, Mecca, CA

2. Requestor' Name: Greg Neal
   Address: 5706 Corporate Ave., Cypress, CA 90630

3. Sample (s) History:
   Date Collected: 12/14/2011
   Date Received: 12/20/2011
   Date Extracted/Digested: 12/27/2011 Method: EPA 3546
   Date Analyzed: 12/27/11 & 1/9/2012 Method: EPA 8310

   Date data package was completed: 1/13/2012

Case narrative:

1. Initial calibration and continuing calibration criteria were met? ☑ Yes ☐ No
3. Method blank criteria were met? ☑ Yes ☐ No
4. QC parameters were within control limits? ☐ Yes ☑ No
5. Surrogate standards were within control limits? ☐ Yes ☑ No
6. RRT window criteria met? ☑ Yes ☐ No
7. Sample holding time was met? ☑ Yes ☐ No

Comments:

If any of the above answer is "NO" please explain in details.

Samples had sample matrix effects, humps in baseline. 5X dilution was used for all of the samples. MB, LCS, LCS-D were undiluted. MSD had no recovery for many compounds, possibly due to poor extraction or matrix interference. Only the MS was reported. Low recoveries were reported in the MS, possibly due to matrix interference. AV01597 had a significant baseline hump, interfering with sample integration. This may be a cause of the high surrogate recovery in the sample. Chromatographically, it looks like interfering peaks were co-eluting with the surrogate peak.

Sample Prepared by: Date 1/13/2011
Mehdi Nikbakht

Sample Analyzed by: Date 1/13/2011
Wei ZOU

California Environmental Protection Agency
Department of Toxic Substances Control
Environmental Chemistry Laboratory
700 Heinz Avenue, Suite 100, Berkeley, CA 94710
Telephone: (510) 540-3003

LABORATORY REPORT---POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC

Authorization No. : 11EC0085 **Priority:** 2
ECL No.: AV01592-AV01597 Page: 3 of 15

Reference Method: EPA 8310

Analytical Procedure: Samples are extracted and then analyzed using HPLC ultra violet detector.

ECL NO.		AV01592	AV01593	AV01594	AV01595	AV01596	AV01597	Method Blank	**Reporting Limit (not corrected for dilution) µg/Kg**
Requestor's No		WEI-GL08-NE	WEI-GL07-NW	WEI-GL16-SW	WEI-GL20-W	WEI-UT03	WEI-UT06		
Extraction Date		12/27/2011	12/27/2011	12/27/2011	12/27/2011	12/27/2011	12/27/2011	12/27/2011	
Analysis Date		1/9/2012	1/9/2012	1/9/2012	1/9/2012	1/9/2012	1/9/2012	12/27/2011	
Dilution Factor		5[a]	5[a]	5[a]	5[a]	5[a]	5[a]	1	
Matrix Type		Soil	Soil	Soil	Soil	Soil	Soil	Sand	
Units		µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	
Compounds:	CAS #								
Acenaphthene	83-32-9	ND	ND	ND	ND	ND	ND	ND	**200**
Acenaphthylene	208-96-8	ND	ND	ND	ND	ND	ND	ND	**200**
Anthracene	120-12-7	ND	ND	ND	ND	ND	ND	ND	**200**
Benzo(a)anthracene	56-55-3	ND	ND	ND	ND	ND	1760	ND	**200**
Benzo(a)pyrene	50-32-8	ND	ND	ND	ND	ND	ND	ND	**200**
Benzo(b)fluoranthene	205-99-2	ND	ND	ND	ND	ND	ND	ND	**200**
Benzo(g,h,i)perylene	191-24-2	ND	ND	ND	ND	ND	1330	ND	**200**
Benzo(k)fluoranthene	207-08-9	ND	ND	ND	ND	ND	1110	ND	**200**
Chrysene	218-01-9	ND	ND	ND	ND	ND	1770	ND	**200**
Dibenzo(a,h)anthracene	53-70-3	ND	ND	ND	ND	ND	ND	ND	**200**
Fluoranthene	206-44-0	ND	ND	ND	ND	ND	2830	ND	**200**
Fluorene	86-73-7	ND	ND	ND	ND	ND	2280	ND	**200**
Indeno(1,2,3-c,d)pyrene	193-39-5	ND	ND	ND	ND	ND	ND	ND	**200**
Naphthalene	91-20-3	ND	ND	ND	ND	ND	ND	ND	**200**
Phenanthrene	85-01-8	ND	ND	ND	ND	1720	6660	ND	**200**
Pyrene	129-00-0	ND	ND	ND	ND	ND	1180	ND	**200**

Surrogate Standards:	% Recovery								
Terphenyl-d14	1718-51-0	81	85	82	113	115	273[b]	94	

Surrogate Control Limits	**Solid**	
Terphenyl-d14	70	130

ND = Not Detected < Quantitation Limit
NR = Not Recovered (For Surrogate Standards)
Quantitation Limit = (Reporting Limit) x (Dilution Factor)

Comments: (If any sample has different QL due to Dilution Factor (DF), mention under comments)

[a]Samples had sample matrix effects, humps in baseline. 5X dilution was used for all of the samples. MB, LCS, LCS-D were undiluted.

[b]AV01597 had significant baseline hump, due to the strong sample matrix effect. This might cause the overly high surrogate recovery.

California Environmental Protection Agency
Department of Toxic Substances Control
Environmental Chemistry Laboratory

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

LABORATORY QUALITY CONTROL REPORT -- POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC

Authorization No. : 11EC0085 **Priority:** 2

ECL No.: AV01592-AV01597 Page: 4 of 15

Quality Control Parameter	Laboratory Control Spike/Laboratory Control Spike Duplicate									
Extraction Date	12/27/2011									
Analysis Date	12/27/2011									
Dilution Factor	1			1						
Matrix Type	Solid									
		LCS		LCSD		LCS/LCSD	Control Limits			Reporting Limit
	Spike Added	Amount Recovered	Recovery	Amount Recovered	Recovery	RPD	Recovery		RPD	
Units	ug/Kg	ug/Kg	%	ug/Kg	%	%	%		%	ug/Kg
Naphthalene	2000	1610	81	1545	77	4.1	70	130	20	**200**
Acenaphthylene	2000	1599	80	1542	77	3.6	70	130	20	**200**
Acenaphthene	2000	1624	81	1560	78	4.0	70	130	20	**200**
Fluorene	2000	1584	79	1523	76	3.9	70	130	20	**200**
Phenanthracene	2000	1603	80	1552	78	3.2	70	130	20	**200**
Anthracene	2000	1652	83	1607	80	2.7	70	130	20	**200**
Fluoranthene	2000	1675	84	1635	82	2.4	70	130	20	**200**
Pyrene	2000	1688	84	1641	82	2.8	70	130	20	**200**
Benzo(a)anthracene	2000	1763	88	1728	86	2.0	70	130	20	**200**
Chrysene	2000	1771	89	1734	87	2.1	70	130	20	**200**
Benzo(b)fluoranthene	2000	1756	88	1717	86	2.2	70	130	20	**200**
Benzo(k)fluoranthene	2000	1769	88	1730	86	2.2	70	130	20	**200**
Benzo(a)pyrene	2000	1797	90	1778	89	1.1	70	130	20	**200**
Dibenz(a,h)anthracene	2000	1712	86	1681	84	1.9	70	130	20	**200**
Benzo(g,h.i)perylene	2000	1774	89	1746	87	1.6	70	130	20	**200**
Indeno(1,2,3-CD)pyrene	2000	1772	89	1732	87	2.3	70	130	20	**200**
Surrogates:			% Recovery		% Recovery					
Terphenyl-d14			90		90		70	130		

Notes:

NR = Not Recovered (For Surrogate Standard)

ND = Not Detected<Quantitation Limit

Quantitation Limit = (reporting limit) x (dilution factor)

J = estimated value

California Environmental Protection Agency
Department of Toxic Substances Control
Environmental Chemistry Laboratory
700 Heinz Avenue, Suite 100, Berkeley, CA 94710

LABORATORY QUALITY CONTROL REPORT -- POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC

Authorization No. : 11EC0085 **Priority:** 2

ECL No.: AV01592-AV01597 Page: 5 of 15

Quality Control Parameter	Sample Replicate Analysis				
Extraction Date	12/27/2011				
Analysis Date	1/9/2012				
Matrix	Soil				
ECL No:	AV01593				
	Sample Results	Replicate Results	RPD	RPD Control Limits	Quantitation Limits
Units	ug/Kg	ug/Kg	%	%	ug/Kg
Naphthalene	ND	ND		20	200
Acenaphthylene	ND	ND		20	200
Acenaphthene	ND	ND		20	200
Fluorene	ND	ND		20	200
Phenanthrene	ND	ND		20	200
Anthracene	ND	ND		20	200
Fluoranthene	ND	ND		20	200
Pyrene	ND	ND		20	200
Benzo(a)anthracene	ND	ND		20	200
Chrysene	ND	ND		20	200
Benzo(b)fluoranthene	ND	ND		20	200
Benzo(k)fluoranthene	ND	ND		20	200
Benzo(a)pyrene	ND	ND		20	200
Dibenz(a,h)anthracene	ND	ND		20	200
Benzo(g,h,i)perylene	ND	ND		20	200
Indeno(1,2,3-cd)pyrene	ND	ND		20	200

Surrogates:	% Recovery	% Recovery	Control Limits	
Terphenyl-d14	85	92	70	130

Notes: Results are not corrected for moisture content.

ND = Not Detected < Quantitation Limit
NR = Not Recovered (For Surrogate Standard)

Quantitation Limit = lowest calibration standard x dilution factor
NC = Not Calculated

California Environmental Protection Agency
Department of Toxic Substances Control
Environmental Chemistry Laboratory
700 Heinz Avenue, Suite 100, Berkeley, CA 94710
Telephone: (510) 540-3003

LABORATORY QUALITY CONTROL REPORT -- POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC

Authorization No. : 11EC0085 **Priority:** 2

ECL No.: AV01592-AV01597

Quality Control Parameter	MATRIX SPIKE/MATRIX SPIKE DUPLICATE										
Extraction Date	12/27/2011										
Analysis Date	1/9/2012										
Instrument Dilution Factor	5										
Matrix Type	Solid										
	ECL No.	AV01593	Matrix Spike		Matrix Spike Duplicate			MS/MSD RPD	Control Limits		
	Sample Unspiked	Spike Added	Amount Recovered	Recovery	Spike Added	Amount Recovered	Recovery		Recovery		RPD
Units	ug/Kg	ug/Kg	ug/Kg	%	ug/Kg	ug/Kg	%	%	%		%
Naphthalene	ND	2000	1088	**54**				**200**	70	130	20
Acenaphthylene	ND	2000	1171	**59**				**200**	70	130	20
Acenaphthene	ND	2000	1164	**58**				**200**	70	130	20
Fluorene	ND	2000	1029	**51**				**200**	70	130	20
Phenanthrene	ND	2000	1442	72				**200**	70	130	20
Anthracene	ND	2000	1310	**66**				**200**	70	130	20
Fluoranthene	ND	2000	1982	99				**200**	70	130	20
Pyrene	ND	2000	1483	74				**200**	70	130	20
Benzo(a)anthracene	ND	2000	1485	74				**200**	70	130	20
Chrysene	ND	2000	1376	**69**				**200**	70	130	20
Benzo(b)fluoranthene	ND	2000	1319	**66**				**200**	70	130	20
Benzo(k)fluoranthene	ND	2000	1270	**64**				**200**	70	130	20
Benzo(a)pyrene	ND	2000	807	**40**				**200**	70	130	20
Dibenz(a,h)anthracene	ND	2000	1239	**62**				**200**	70	130	20
Benzo(g,h,i)perylene	ND	2000	1560	78				**200**	70	130	20
Indeno(1,2,3-cd)pyrene	ND	2000	1243	**62**				**200**	70	130	20
Surrogates:				% Recovery			% Recovery				
Terphenyl-d14				98					70	130	

Notes:
MSD had no recovery for many compounds, possibly due to poor extraction or matrix interference. It was not reported.
NR = Not Recovered (For Surrogate Standard)
Quantitation Limit = (Reporting limit) x (dilution factor)
ND = Not Detected<Quantitation Limit

State of California
California Environmental Protection

Department of Toxic Substances Control
Environmental Chemistry Laboratory

SUPPLEMENTAL ☐
(Check if Supplemental Requested)

AUTHORIZATION REQUEST FORM (ARF)

PART A : (By Requestor - PLEASE PRINT)

*Unit chief's signature required: (for Rush or TAT Level = 1)

Turnaround Time (TAT) : *Rush ☐ *Level 1 ☐ 2 ☑ 3 ☐

Requestor's Name	Greg Neal	Email	gneal @dtsc.ca.gov	Phone (714) 484-5455
Region	04--Cypress	Unit	BERP-Engineering & Geology	Fax (714) 484-5411
Back-up Requestor	Alfredo Zanoria			Phone (714) 484-5422
Site Name	Western Environmental Inc - Mecca			AREA CODE

PART B: Analytical Requests (By Requestor) (Lab uses default methods listed below. Please specify all other requests.)

Inorganic Analysis	Number of Samples/Type Solid	Liquid	Water	Other
% Dry Solids (ECL730-S)				
Acidity (305-1)				
Alkalinity (310-1)				
Anions by IC (9056)				
Chromium VI(Cr^{6+}) by Colorimetric (7196A)				
Chromium VI(Cr^{6+}) in Water by IC (7199)				
Cyanides for Wastes,Leachates (9010B)	10 TO ATL			
Hardness (130-2)				
Mercury(Hg) in (Semi)Solid Waste (7471A)	10			
Mercury(Hg) in Liquid Waste (7470A)				
Metals Screening by XRF				
Metals Scan (6010B, for As,Ba,Cu,Pb, etc)				
Metals Scan (for Drinking water, 6020A)				
OrganoLead in Waste (ECL938-M)				
Particle Size (ECL740-S)				
Perchlorate for Soil,Sludge (ECL955-M)				
Perchlorate for Water (314-0)				
pH (9040B, 9045C)				
Total Dissolved Solids (160-1)				
WET(ECL910-S) ☐ Only if necessary ☐ Do it regardless				
(others, type in)				

Organic Analysis	Number of Samples/Type Solid	Liquid	Water	Other
GRO (Gasoline, 8015B)				
DRO(Diesel) only (ECL816-M)				
Motor Oil only (ECL816-M)				
DRO(Diesel) & Motor Oil (ECL816-M)				
EthyleneGlycol (ECL772-M)				
PBDEs (ECL750-M)				
PCBs (8082)				
Pesticides - Chlorinated (8081A)				
Pesticides - Organophosphate (8141A)	10 TO ATL			
1,4-Dioxane (ECL830-S)				
GC/MS Semivolatiles (8270C)	10			
Volatiles (8260B)				
HPLC Carbonyl Compounds (8315A)				
Explosives (8330)				
PAHs (8310)	10			
Dioxins/Furans by HRGC/HRMS (ECL880-M)	10			
Flash Point (1020A)				
n-Hexane Extractables/TPH (1664)				
TXO-Total Halogens in Oil (ECL792-S)				
(others, type in)				
(others, type in)				

TCLP Analysis**			Number of Samples/Type Solid	Liquid	Water	Other
Metals	☐ Only if necessary	☐ Do it regardless				
Mercury	☑ Only if necessary	☐ Do it regardless	10			
Volatiles	☐ Only if necessary	☐ Do it regardless				
Semivolatiles	☐ Only if necessary	☐ Do it regardless				
(others, type in)						

Other Analysis	Number of Samples/Type Solid	Liquid	Water	Other
Fish Bioassay (Title 22)				
Congener PCBs (ECL-CG-PCB)				
Congener PBDEs (ECL-CG-PBDE)				
(others,type in)				
(others, type in)				

Analysis Objective: Site Characterization

Special Instructions or Comments (For Example: Detection Limit, Sample Preparation, Extraction..., etc.):

Lowest achieveable DLs. Dioxins/furans by EPA 8290 if DL is lower than ECL method. Cyanide by 9010 if DL is lower than 9014.

Expected Sample Arrival Date: 12/16/11 (mm/dd/yy)

PART C : (By SMO - ECL)

Authorization Number (AN): 11EC0085-~~BERP~~ EERP

ARF's Revision No. Initials: Date:

Lab to Receive Sample(s): Environmental Chemistry Lab, 700 Heinz Ave. Suite 150, Berkeley, CA 94710, Attn: Lloyd Williams (510) 540-2189

ARF's Revision No. Initials: Date:

Sample Management Officer (SMO): [signature]

☐ Check box if cancelled Initials: Date:

Today's Date 12/09/11 (mm/dd/yy) Expiration Date 12/26/11 (mm/dd/yy)

If Sample(s) Directed to Contract Lab, Please Specify:

Reason:

ECL Contract Lab Manager Notification (for Rush or TAT Level =1):

ECL Personnel Confirmed:

Turnaround Time (TAT): * Rush for public health and safety or emergency, *Level 1 = 15 days, 2 = 30 days, 3 = 45 days.
**TCLP - If time permits and sample matrix type is appropriate, lab may analyze or screen the sample(s) first to determine if TCLP is needed.
Reference: ECL User's Manual.

State of California
California Environmental Protection Agency

Department of Toxic Substances Control
Environmental Chemistry Laboratory

ENVIRONMENTAL CHEMISTRY LABORATORY SAMPLE ANALYSIS REQUEST

1. Authorization Number: 11EC0085

ECL No.: AV01592 To AV01597

2. Page 1 of 1

3. Requestor: (to Receive Results) a. Name: Greg Neal
b. Address: 5796 Corporate Avenue (street number)
Cypress Ca 90630 (city, state, zip)
c. Phone: 7144845455 (area code first) d. Fax: 7144845411 (area code first)
e. Email: gneal@dtsc.ca.gov @dtsc.ca.gov

4. Project Name (if applicable): WEI Mecca

5. TAT Level: 2

6. Sampling Information: a. Date/Time Sampled: 12/14-12/16/11 (mm/dd/yy) (#:## AM/PM)
b. Location: EPA ID No.
Site: WEI Mecca
Address: 62-150 Gene Welmas Ave (street number)
Mecca Ca (city, state, zip)
GPS-Lat: GPS-Long:
GPS-Alt: GPS-Depth:

7. Codes (select from drop down list or fill in if applicable)
a. Unit: EERP - Chatsworth — LW
b. INDEX: 6310
c. PCA: 36195
d. MPC: 962
e. SITE: 55115-48
f. County: Riverside

8. Samples:

	a. ID	b. Collector's No.	c. ECL No.	d. Matrix	e. Container Size	f. Number of containers	g. Preservative / Field Information
1	WEI-GL08-NE		AV01592	Soil	3-8oz 2-4oz 3-VOA	8 12/14 10:04	ICE Methanol Sodium Bisulfate
2	WEI-GL07-NW		AV01593	Soil	3-8oz 2-4oz 3-VOA	8 12/14 13:24	ICE Methanol Sodium Bisulfate
MS	~~WEI-GL07-NW MS~~			Soil	3-8oz 2-4oz 3-VOA	8	ICE Methanol Sodium Bisulfate
4	WEI-GL16-SW		AV01594	Soil	3-8oz 2-4oz 3 VOA	8 12/15 9:04	ICE Methanol Sodium Bisulfate
5	WEI-GL20-W		AV01595	Soil	3-8oz 2-4oz 3 VOA	8 12/15 3:24	ICE Methanol Sodium Bisulfate
6	WEI-UT03		AV01596	Soil	3-8oz 2-4oz 3 VOA	8 12/14 9:28	ICE Methanol Sodium Bisulfate
7	WEI-UT06		AV01597	Soil	3-8oz 2-4oz 3 VOA	8 12/14 11:07	ICE Methanol Sodium Bisulfate
8	WEI-Blank			liquid	3 VOA	3	Methanol Sodium Bisulfate
9							

for QC MS/MSD S/SD.

9. Analysis Requested: Enter sample IDs and sample ID ranges separated by commas: For example, 1-3, 5-7, 9

a. Inorganic Analysis	Sample(s) ID	b. Organic Analysis	Sample(s) ID
· Cyanide	1,2,4,5,6,7,	· Chlorinated Pesticides	1,2,4,5,6,7
· Mercury	1,2,4,5,6,7,	· Organo ~~Chlorine~~ Phosphorus Pesticides	1,2,4,5,6,7
· Metals	1,2,4,5,6,7	· VOCs	1,2,4,5,6,7,8
· pH	1,2,4,5,6,7	· PCBs	1,2,4,5,6,7
· Hexavalent Chromium	1,2,4,5,6,7	· SVOCs	1,2,4,5,6,7
		· PAHs	1,2,4,5,6,7
		· Dioxins/furans	1,2,4,5,6,7
Other Metals:			

FIELD

c. TCLP Analysis		d. Other Analysis
Metals only if necessary	1,2,4,5,6,7	
Mercury only if necessary	1,2,4,5,6,7	

e. Comments for Multiphasic Samples/Analysis Priority:

10. Analysis Objective: Human Health Risk

11. Detection Limit Requirements: (Check ECL User's Manual to assure default DL is sufficient.)
Lowest Achievable

12. Supplemental Requests: Enter sample IDs as described in Item 9

Desired Analysis	Sample(s) ID

Initials
Date

ECL

13. ECL Lab Remarks:
ECL Berkeley received only 14 samples in this batch. LW

LAB

14. Chain of Custody:

	Name	Title	Signature	Inclusive Dates of Custody	
a.	Greg Neal	Geologist	Greg Neal	12/14/11	to 12/16/11
b.	Alfredo Zamora	Geologist	[illegible]	12/16/11	to 12/19/11
c.	Greg Neal	Geologist	Greg Neal	12/19/11	to 12/19/11
d.	Barbara Bush	Lab Tech	Barbara Bush	12/19/11	to 12/19/11
e.	Floyd Williams	Lab Asst	Floyd Williams	12/20/11	to
f.					to
g.					to

COC

Department of Toxic Substances Control
Environmental Chemistry Laboratory
700 Heinz Avenue, Suite 150, Berkeley, CA 94710
Phone: (510) 540-3610 Fax: (510) 540-3615

ECL SAMPLE RECEIPT

Printed on: 12/20/2011

Authorization No: **11EC0085_EERP**

Collector: Greg Neal

Date Collected: 12/14/2011

Date Lab Received: 12/20/2011

Sampling Site: WEI MECCA
62-150 Gene Welmos Ave.

ECL No.	Collector's No.	Sample Matrix	Container		Approximate Amount Rec' D	Custody Seals	Seal Location	Sample Condition	Action Taken
			Type	Size					
AV01592	WEI-GL03-NE	Soil	glass	2(1-8oz, 1-4oz glass jar)	4oz-176.2; 8oz-306.2	Absent		Acceptable	
AV01593	WEI-GL07-NW	Soil	glass	4(2-8oz, 2-4oz glass jar)	4oz-131.4; 8oz-232.7	Absent		Acceptable	
AV01594	WEI-GL16-SW	Soil	glass	2(1-8oz, 1-4oz glass jar)	4oz-179.6; 8oz-320.2	Absent		Acceptable	
AV01595	WEI-GL20-W	Soil	glass	2(1-8oz, 1-4oz glass jar)	4oz-151.6; 8oz-339.7	Absent		Acceptable	
AV01596	WEI-UT03	Soil	glass	2(1-8oz, 1-4oz glass jar)	4oz-164.7; 8oz-307.4	Absent		Acceptable	
AV01597	WEI-UT06	Soil	glass	2(1-8oz, 1-4oz glass jar)	4oz-185.6; 8oz-338.4	Absent		Acceptable	

Comments:

Sample(s) processed by: Lloyd Williams Signature: [signature] Date: 12/20/11

Supervisor's approval (if any action taken): Signature: Date:

FedEx Express **NEW Package US Airbill**

FedEx Tracking Number 8768 1923 1435

0200 Form ID No.

FedEx Retrieval Copy

1 From

Date 12-19-11 Sender's FedEx Account Number 3203-0960-3

Sender's Name B BUSH Phone 213 482-9744

Company DTSC - ECL-LA

Address 1449 W Temple Dept./Floor/Suite/Room

City Los Angeles State CA ZIP 90026

2 Your Internal Billing Reference

3 To

Recipient's Name Sample Rec'g Phone

Company DTSC ECL Ste 150

Address 700 Heinz Ave Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City Berkeley State CA ZIP 94710

01 ☐ HOLD Weekday — FedEx location address REQUIRED. NOT available for FedEx First Overnight.

31 ☐ HOLD Saturday — FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

116

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4 Express Package Service • To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs. For packages over 150 lbs., use the new FedEx Express Freight US Airbill.

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06 ☐ FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

01 ☒ FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

05 ☐ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

49 ☐ NEW FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.

03 ☐ FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

20 ☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging • Declared value limit $500.

06 ☐ FedEx Envelope* 02 ☐ FedEx Pak* 03 ☐ FedEx Box 04 ☐ FedEx Tube 01 ☒ Other

6 Special Handling and Delivery Signature Options

03 ☐ **SATURDAY DELIVERY**

☒ No Signature Required — Package may be left without obtaining a signature for delivery

10 ☐ Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*

34 ☐ Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods?

One box must be checked.

☒ No 04 ☐ Yes — As per attached Shipper's Declaration. ☐ Yes — Shipper's Declaration not required. 06 ☐ Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

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1 ☒ Sender — Acct. No. in Section 1 will be billed. 2 ☐ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check

[redacted]

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TUE - 20 DEC A1
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Environmental Chemistry Laboratory
700 Heinz, Suite 130, Berkeley CA 94710
Telephone: (510)540-2955 FAX: (510)540-2305

Sample Receipt Checklist

Authorization No: 11EC0085 E+ERP

ECL No: AU01592-AU01597 Collector's No: see SAR

Sample Criteria	Yes Acceptable	No
1. Samples received in cooler/ice chest?	✓	
2. Cooler/ice chest packed with ice?	✓	
3. Cooler/ice chest temperature within 4°C ± 2°C? 4.6 °C	✓	
4. Sample condition acceptable (intact and not damaged)?	✓	
5. Custody seals present?		✓
6. If Yes, Custody seals intact?		
7. Samples in proper containers? (See Table 1 & 2)	✓	
8. VOA aqueous samples in 40 ml VOA vials and no headspace?		
9. Sufficient volume/amount for analyses? (See Table 1&2)	✓	
10. Sample Analysis Request Form SAR) received?	✓	
11. SAR complete?	✓	
12. No. of samples in SAR and the no. of samples in ARF agree within 20%?	✓	
13. Sample labels agree with SAR? Some labels smeared	✓	
14. Sample labels legible and numbered?	✓	
15. Chain of Custody complete? Name printed, signed and dated?	✓	
16. Samples properly preserved?	✓	
17. If received by Fed EX, air bill/packing slip signed, dated and made copy for file?		

If No, check for corrective action taken.

_____ Sample analysis on hold for further information _____ Inform collector of the problem

✓ Samples analyzed as received _____ Corrected

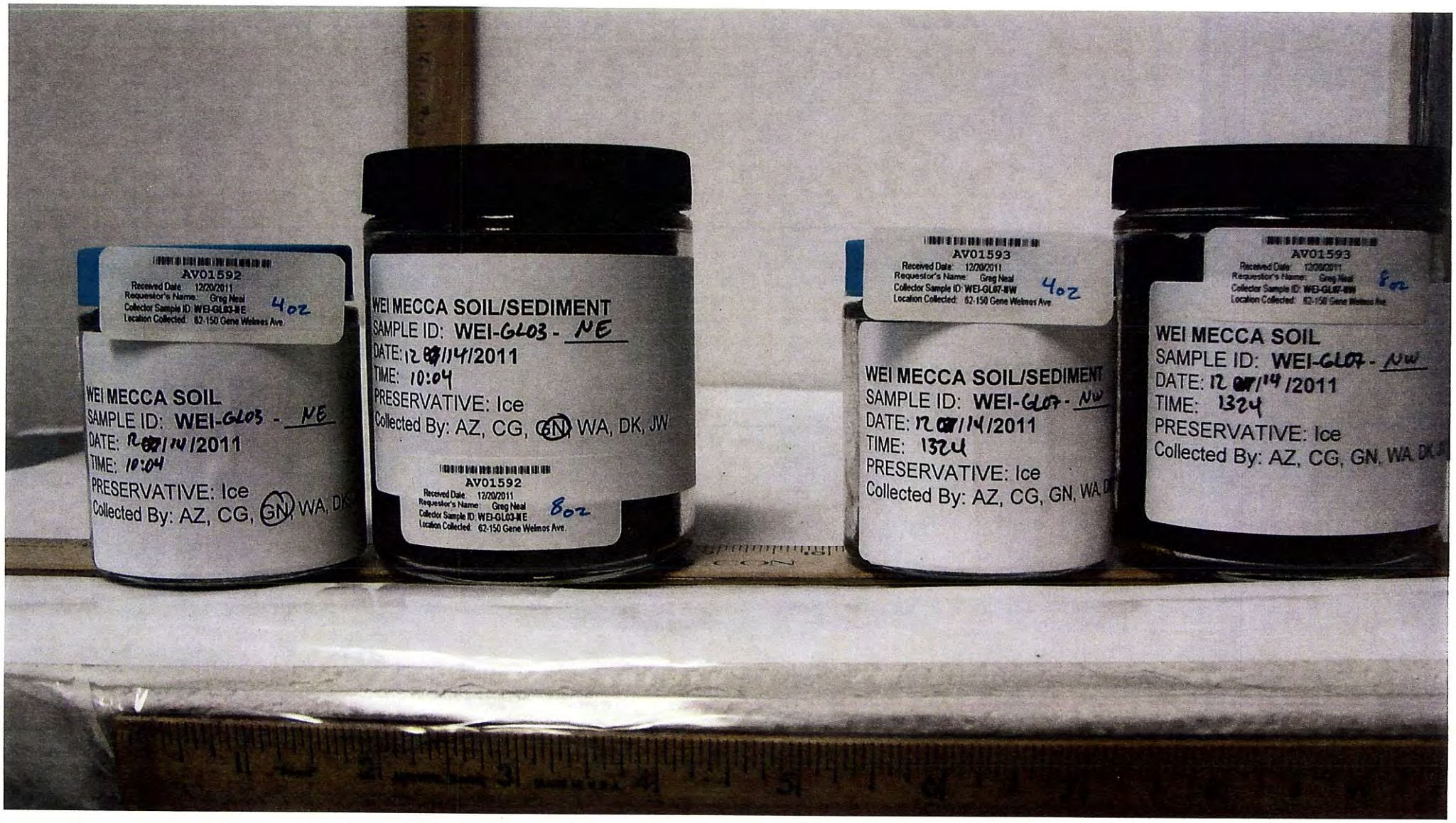
_____ Other (specify) _____

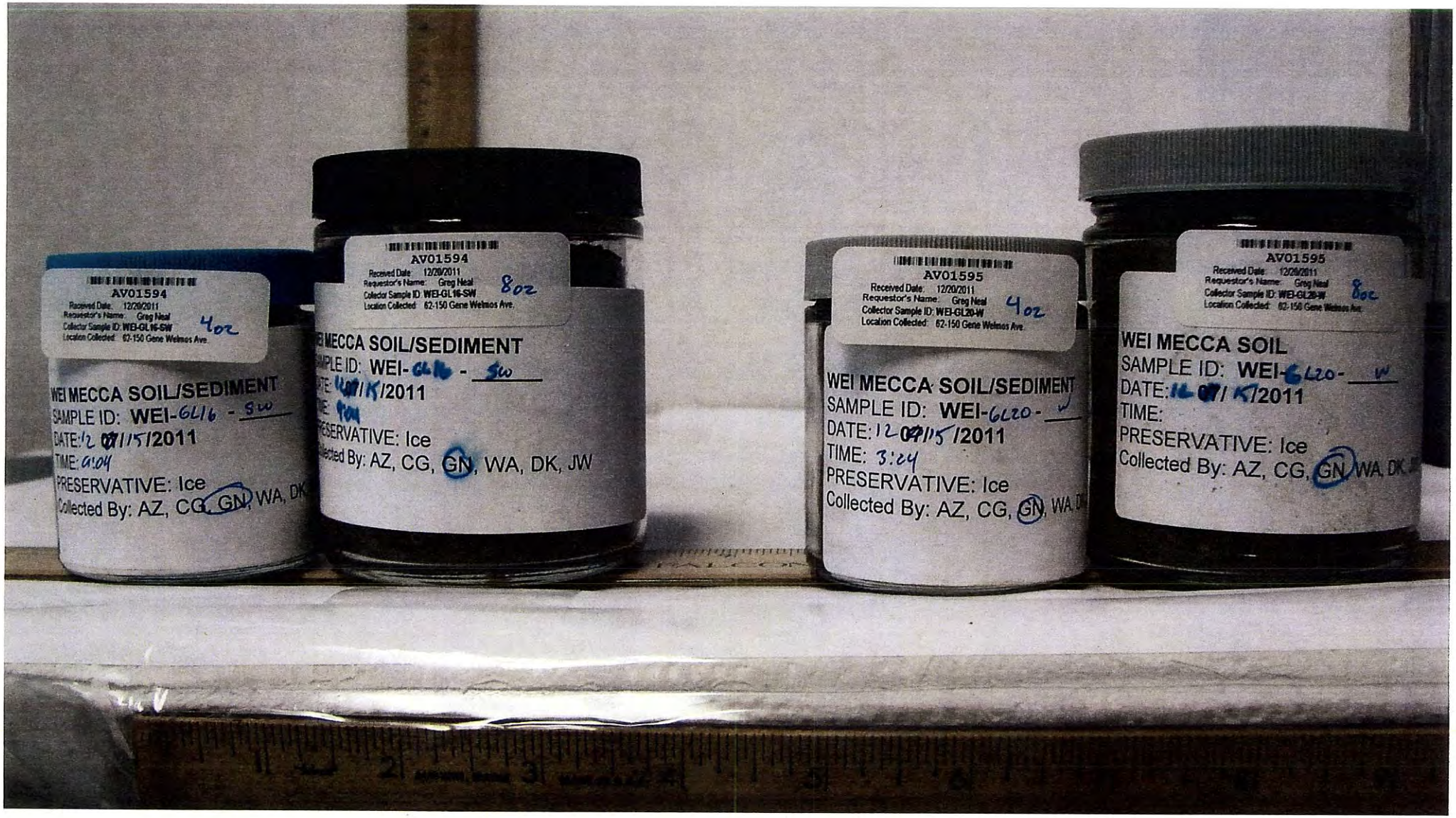
Received and Completed by: Lloyd Williams

Signature: [signature] Date: 12/20/11

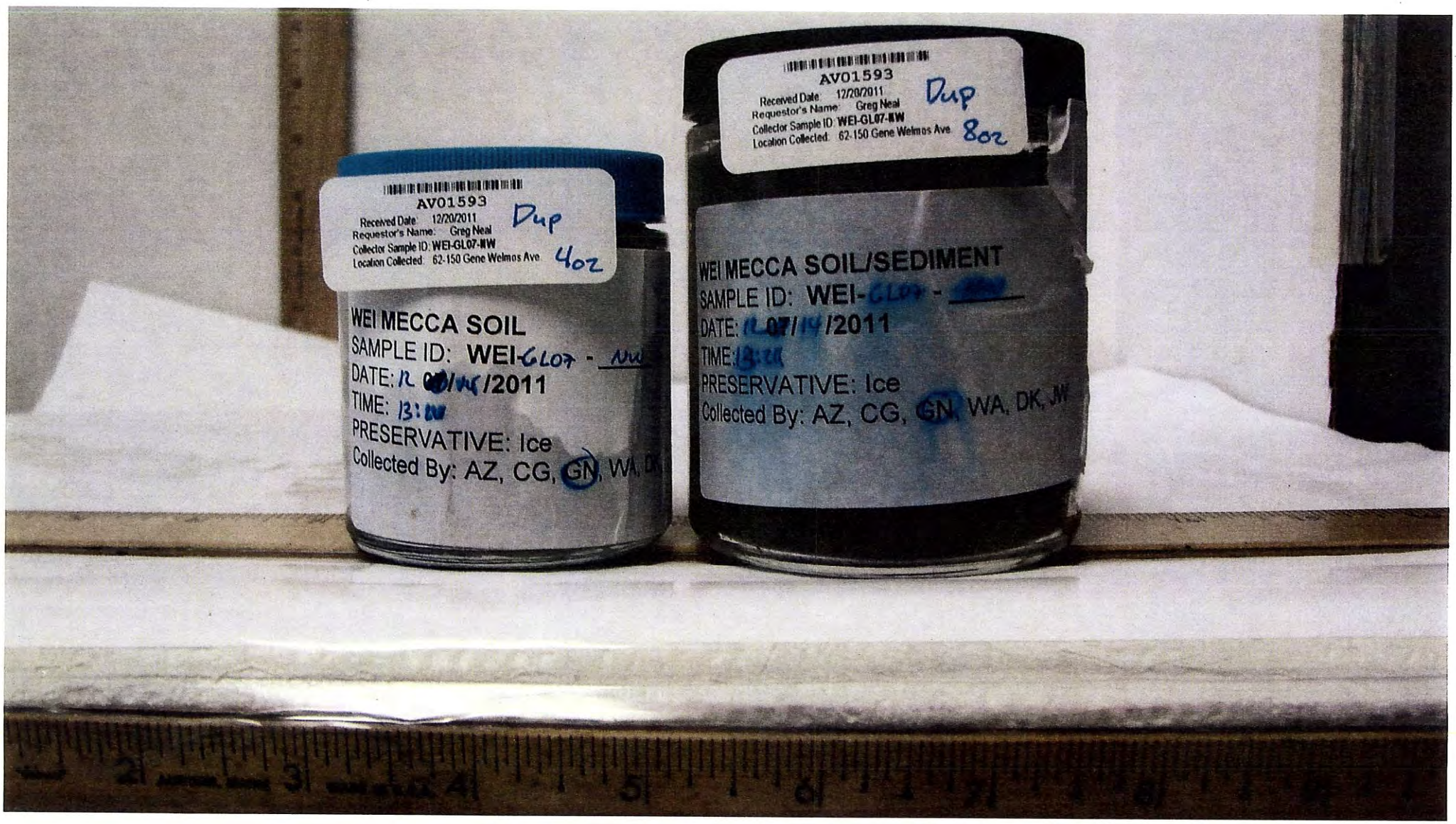
Supervisor's Approval: _____ Date: _____

If any correction taken


AV01592
Received Date: 12/20/2011
Requestor's Name: Greg Neal
Collector Sample ID: WEI-GL03-NE
Location Collected: 62-150 Gene Welmos Ave.
4oz
WEI MECCA SOIL
SAMPLE ID: WEI-GL03 - NE
DATE: 12/14/2011
TIME: 10:04
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-GL03 - NE
DATE: 12/14/2011
TIME: 10:04
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK, JW
AV01592
Received Date: 12/20/2011
Requestor's Name: Greg Neal
Collector Sample ID: WEI-GL03-NE
Location Collected: 62-150 Gene Welmos Ave.
8oz
AV01593
Received Date: 12/20/2011
Requestor's Name: Greg Neal
Collector Sample ID: WEI-GL07-NW
Location Collected: 62-150 Gene Welmos Ave
4oz
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-GL07 - NW
DATE: 12/14/2011
TIME: 1324
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA
AV01593
8oz
WEI MECCA SOIL
SAMPLE ID: WEI-GL07 - NW
DATE: 12/14/2011
TIME: 1324
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA


AV01594
Received Date: 12/20/2011
Requestor's Name: Greg Neal
Collector Sample ID: WEI-GL16-SW
Location Collected: 62-150 Gene Welmos Ave.
4oz
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-GL16 - SW
DATE: 12/15/2011
TIME: 9:04
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK
AV01594
Received Date: 12/20/2011
Requestor's Name: Greg Neal
Collector Sample ID: WEI-GL16-SW
Location Collected: 62-150 Gene Welmos Ave.
8oz
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-GL16 - SW
DATE: 12/15/2011
TIME: 9:04
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK, JW
AV01595
Received Date: 12/20/2011
Requestor's Name: Greg Neal
Collector Sample ID: WEI-GL20-W
Location Collected: 62-150 Gene Welmos Ave.
4oz
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-GL20 - W
DATE: 12/15/2011
TIME: 3:24
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK
AV01595
Received Date: 12/20/2011
Requestor's Name: Greg Neal
Collector Sample ID: WEI-GL20-W
Location Collected: 62-150 Gene Welmos Ave.
8oz
WEI MECCA SOIL
SAMPLE ID: WEI-GL20 - W
DATE: 12/15/2011
TIME:
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK

AV01596
Received Date: 12/20/2011
Requestor's Name: Greg Neal
Collector Sample ID: WEI-UT03
Location Collected: 62-150 Gene Welmos Ave
4 oz
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-UT03 -
DATE: 12/16/2011
TIME: 9:23
PRESERVATIVE: Ice
Collected By: AZ, CG, GN WA
AV01596
Received Date: 12/20/2011
Requestor's Name: Greg Neal
Collector Sample ID: WEI-UT03
Location Collected: 62-150 Gene Welmos Ave
8 oz
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-UT03 -
DATE: 12/16/2011
TIME: 9:23
PRESERVATIVE: Ice
Collected By: AZ, CG, GN WA, DK, JW
AV01597
Received Date: 12/20/2011
Requestor's Name: Greg Neal
Collector Sample ID: WEI-UT06
Location Collected: 62-150 Gene Welmos Ave
4 oz
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-UT06 -
DATE: 12/16/2011
TIME: 11:07
PRESERVATIVE: Ice
Collected By: AZ, CG, GN WA
AV01597
Received Date: 12/20/2011
Requestor's Name: Greg Neal
Collector Sample ID: WEI-UT06
Location Collected: 62-150 Gene Welmos Ave
8 oz
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-UT06 -
DATE: 12/16/2011
TIME: 11:07
PRESERVATIVE: Ice
Collected By: AZ, CG, GN WA


AV01593
Received Date: 12/20/2011
Requestor's Name: Greg Neal
Collector Sample ID: WEI-GL07-NW
Location Collected: 62-150 Gene Welmos Ave.
Dup
4oz
WEI MECCA SOIL
SAMPLE ID: WEI-GL07 -
DATE: 12/14/2011
TIME: 13:00
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK
AV01593
Received Date: 12/20/2011
Requestor's Name: Greg Neal
Collector Sample ID: WEI-GL07-NW
Location Collected: 62-150 Gene Welmos Ave.
Dup
8oz
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-GL07 -
DATE: 12/14/2011
TIME: 13:00
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK, JW

California Environmental Protection Agency
Department of Toxic Substances Control
Environmental Chemistry Laboratory
700 Heinz Avenue, Suite 100, Berkeley, CA 94710
Telephone: (510) 540-3003

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

LABORATORY REPORT --- MERCURY --- SOIL

Authorization No. : 11EC0105
ECL No.: AV01845-AV01848

Requestor's Name: Greg Neal
Address: 5796 Corporate Avenue, Cypress, CA 90630

Sampling Location: Western Environmental - Mecca
62 - 150 Gene Welmas Ave, Mecca, CA

Table of Contents

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Sample Analysis Requests	7
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The results listed within this report pertain only to the samples tested in the laboratory. These results have been reviewed for technical correctness and completeness. This report was reviewed and approved for release.

Report Reviewed by: Carol Wortham Date 2/27/2012
Carol Wortham, RSII

Report Approved by: John Quinn Date 2/29/2012
John Quinn, RSSI

California Environmental Protection Agency
Department of Toxic Substances Control
Environmental Chemistry Laboratory
700 Heinz Avenue, Suite 100, Berkeley, CA 94710
Telephone: (510) 540-3003

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

LABORATORY REPORT--- MERCURY --- SOIL

Authorization No. : 11EC0105 **Priority:** 2

ECL No.: AV01845-AV01848 **Page:** 2 of 11

1. Sampling Location: Western Environmental- Mecca
   62 - 150 Gene Welmas Ave, Mecca, CA

2. Requestor' Name: Greg Neal
   Address: 5796 Corporate Avenue, Cypress, CA 90630

3. Sample (s) Information:
   Date Collected: 2/7/2012
   Date Received: 2/9/2012
   Date Extracted/Digested: Method: EPA 7473
   Date Analyzed: 2/17/2012 Method: EPA 7473

   Date data package was completed: 2/22/2012

Case narrative:

1. Initial calibration and continuing calibration criteria were met? ☑ Yes ☐ No
2. Calibration blank and continuing calibration blanks criteria were met? ☑ Yes ☐ No
3. QC parameters were within control limits? ☑ Yes ☐ No
4. Sample holding time was met? ☑ Yes ☐ No

Comments:

If any of the above answers is "NO", please explain below in detail.

Sample Prepared by: Caiyun Xu Date 2/24/2012
Caiyun Xu

Sample Analyzed by: Caiyun Xu Date 2/24/2012
Caiyun Xu

California Environmental Protection Agency
Department of Toxic Substances Control
Environmental Chemistry Laboratory
700 Heinz Avenue, Suite 100, Berkeley, CA
94710

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

LABORATORY REPORT--- MERCURY --- SOIL

Authorization No. : 11EC0105 **Priority:** 2
ECL No.: AV01845-AV01848 **Page:** 3 of 11

Reference Method: EPA 7473 (Solid)

Analytical Procedure: Solid samples are dried and then thermally decomposed within the decomposition furnace. A stream of oxygen gas carries the decomposition procducts to the catalytic section of the furnace first, where potential interferents such as halogens and gaseous oxides are trapped. The remaining decomposition products are then carried to the amalgamator which selectively traps mercury. After the system is flushed with oxygen to remove any remaining gases or other decomposition products, the amalgamator is then rapidly heated to release the Hg as a vapor which is then carried to two AA spectrometer cells in tandem. The absorbance of mercury at 253.7 nm is measured, and the amount of mercury in the sample determined from appropriate calibration standards.

Date of Analysis	February 17, 2012						**TTLC Limit**
ECL NO.	AV01845	AV01846	AV01847	AV01848	Method Blank	**Reporting Limit** (not corrected for dilution factor	
Requestor's Sample No.	WEI - Offsite-1	WEI - Offsite-2	WEI - Offsite-3	WEI - Offsite-4			
Matrix Type	Soil	Soil	Soil	Soil	Liquid		
Dilution Factor	1	1	1	1	1		
Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	**mg/Kg**
Mercury - Hg	0.021	ND	0.022	ND	ND	0.02	**20**

Quantitation Limit = Reporting Limit (X) Dilution Factor

Qualifiers:

ND	Not detected < Quantitation Limit
J	Estimated value
B	Analyte found in method blank (MB)
B1	Analyte found in MB. Analyte conc. in the sample is greater than 10X the conc. found in MB
M	MS/MSD % Recovery below control limits
M2	MS/MSD % Recovery above control Limits
R	% RPD exceeded Control Limits
H	Holding Time exceeded

California Environmental Protection Agency
Department of Toxic Substances Control
Environmental Chemistry Laboratory
700 Heinz Avenue, Suite 100, Berkeley, CA 94710
Telephone: (510) 540-3003

LABORATORY QUALITY CONTROL REPORT --- MERCURY --- SOIL

Authorization No. : 11EC0105 **Priority:** 2
ECL No.: AV01845-AV01848 **Page:** 4 of 11

Quality Control Parameter	LABORATORY CONTROL SAMPLE							
Date of Analysis	February 17, 2012							
Matrix Type	Liquid							
		LCS		LCSD			Control Limits	
	True Value	Found	Recovery	Found	Recovery	RPD	Recovery	RPD
Units	mg/kg	mg/kg	%	mg/kg	%	%	%	%
Mercury -Hg	0.200	0.181	90%	0.182	91%	0.4%	80-120	20

Quality Control	SAMPLE REPLICATE ANALYSIS				
Date of Analysis	February 17, 2012				
Matrix Type	Soil				
ECL No.	AV010846				
	Sample	Duplicate			Control Limits
				RPD or RSD	
Units	mg/Kg	mg/Kg		%	%
Mercury -Hg	ND	ND			0-20

Qualifiers:

R **% RPD exceeded Control Limits**
ND Not Detected, < Quantitation Limit

Comments:

California Environmental Protection Agency
Department of Toxic Substances Control

Environmental Chemistry Laboratory

700 Heinz Avenue, Suite 100, Berkeley, CA 94710
Telephone: (510) 540-3003

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

LABORATORY QUALITY CONTROL REPORT --- MERCURY --- SOIL

Authorization No. : 11EC0105 **Priority:** 2

ECL No.: AV01845-AV01848 **Page:** 5 of 11

Quality Control Parameter	MATRIX SPIKE/MATRIX SPIKE DUPLICATE									
Date of Analysis	February 17, 2012									
Matrix Type	Soil									
	ECL No.:	AV010845	Matrix Spike		Matrix Spike Duplicate			MS/MSD RPD	Control Limits	
	Sample Unspiked	Spike Added to MS	Amount Recovered	Recovery	Spike Added to MSD	Amount Recovered	Recovery		Recovery	RPD
Units	mg/Kg	mg/Kg	mg/Kg	%	mg/Kg	mg/Kg	%	%	%	%
Mercury - Hg	0.021	0.200	0.197	88.0%	0.200	0.210	95%	6.5%	80-120	0-20

Qualifiers:

R	**% RPD exceeded Control Limits**
ND	Not Detected, < Quantitation Limit

Comments:

State of California
California Environmental Protection

Department of Toxic Substances Control
Environmental Chemistry Laboratory

SUPPLEMENTAL ☐
(Check if Supplemental Requested)

AUTHORIZATION REQUEST FORM (ARF)

PART A : (By Requestor - PLEASE PRINT)

Unit chief's signature required: (for Rush or TAT Level = 1)

Turnaround Time (TAT) : *Rush ☐ *Level 1 ☐ 2 ☑ 3 ☐

Requestor's Name	Greg Neal	Email	gneal @dtsc.ca.gov	Phone (714) 484-5455
Region	04--Cypress	Unit	BERP-Engineering & Geology	Fax (714) 484-5411
Back-up Requestor	Alfredo Zanoria			Phone (714) 484-5422
Site Name	Western Environmental Inc - Mecca			AREA CODE

PART B: Analytical Requests (By Requestor) (Lab uses default methods listed below. Please specify all other requests.)

Inorganic Analysis	Number of Samples/Type Solid	Liquid	Water	Other
% Dry Solids (ECL730-S)				
Acidity (305-1)				
Alkalinity (310-1)				
Anions by IC (9056)				
Chromium VI(Cr^{6+}) by Colorimetric (7196A)				
Chromium VI(Cr^{6+}) in Water by IC (7199)				
Cyanides for Wastes,Leachates (9010B)	4			
Hardness (130-2)				
Mercury(Hg) in (Semi)Solid Waste (7471A)	4			
Mercury(Hg) in Liquid Waste (7470A)				
Metals Screening by XRF				
Metals Scan (6010B, for As,Ba,Cu,Pb, etc)				
Metals Scan (for Drinking water, 6020A)				
OrganoLead in Waste (ECL938-M)				
Particle Size (ECL740-S)				
Perchlorate for Soil,Sludge (ECL955-M)				
Perchlorate for Water (314-0)				
pH (9040B, 9045C)				
Total Dissolved Solids (160-1)				
WET(ECL910-S) ☐ Only if necessary ☐ Do it regardless				
(others, type in)				

TO AIL

Organic Analysis	Number of Samples/Type Solid	Liquid	Water	Other
GRO (Gasoline, 8015B)				
DRO(Diesel) only (ECL816-M)				
Motor Oil only (ECL816-M)				
DRO(Diesel) & Motor Oil (ECL816-M)				
EthyleneGlycol (ECL772-M)				
PBDEs (ECL750-M)				
PCBs (8082)				
Pesticides - Chlorinated (8081A)				
Pesticides - Organophosphate (8141A)	4			
1,4-Dioxane (ECL830-S)				
GC/MS Semivolatiles (8270C)				
Volatiles (8260B)				
HPLC Carbonyl Compounds (8315A)				
Explosives (8330)				
PAHs (8310)	4			
Dioxins/Furans by HRGC/HRMS (ECL880-M)	4			
Flash Point (1020A)				
n-Hexane Extractables/TPH (1664)				
TXO-Total Halogens in Oil (ECL792-S)				
(others, type in)				
(others, type in)				

TCLP Analysis**						
Metals	☐ Only if necessary	☐ Do it regardless				
Mercury	☑ Only if necessary	☐ Do it regardless	4			
Volatiles	☐ Only if necessary	☐ Do it regardless				
Semivolatiles	☐ Only if necessary	☐ Do it regardless				
(others, type in)						

Other Analysis
Fish Bioassay (Title 22)
Congener PCBs (ECL-CG-PCB)
Congener PBDEs (ECL-CG-PBDE)
(others,type in)
(others, type in)

Analysis Objective: Site Characterization

Special Instructions or Comments (For Example: Detection Limit, Sample Preparation, Extraction..., etc.):

Lowest achieveable DLs. Dioxins/furans by EPA 8290 if DL is lower than ECL method. Cyanide by 9010 if DL is lower than 9014.

Expected Sample Arrival Date: 02/08/12 (mm/dd/yy)

PART C : (By SMO - ECL)

Authorization Number (AN): **11EC0105**

ARF's Revision No. Initials: Date:

Lab to Receive Sample(s):

Environmental Chemistry Lab
700 Heinz Ave. Suite 150
Berkeley, CA 94710
Attn: Lloyd Williams (510) 540-2189

ARF's Revision No. Initials: Date:

Sample Management Officer (SMO): AW

☐ Check box if cancelled
Initials: Date:

Today's Date: 02/01/12 (mm/dd/yy)

Expiration Date: 02/18/12 (mm/dd/yy)

If Sample(s) Directed to Contract Lab, Please Specify:

Reason:

ECL Personnel Confirmed:

ECL Contract Lab Manager Notification (for Rush or TAT Level =1):

Turnaround Time (TAT): * Rush for public health and safety or emergency, *Level 1 = 15 days, 2 = 30 days, 3 = 45 days.
**TCLP : If time permits and sample matrix type is appropriate, lab may analyze or screen the sample(s) first to determine if TCLP is needed.
Reference: ECL User's Manual.

4-402 + 4-802 JARS

State of California
California Environmental Protection Agency

Department of Toxic Substances Control
Environmental Chemistry Laboratory

ENVIRONMENTAL CHEMISTRY LABORATORY SAMPLE ANALYSIS REQUEST

1. Authorization Number: 11SC0105, 11AT0105, 11EC0105

ECL No.: AV01845 To AV01848

2. Page 1 of 1

3. Requestor: (to Receive Results) a. Name: Greg Neal
b. Address: 5796 Corporate Avenue (street number)
Cypress, Ca 90630 (city, state, zip)
c. Phone: (714) 484-5455 (area code first) d. Fax: (714) 484-5411 (area code first)
e. Email: gneal @dtsc.ca.gov

4. Project Name (if applicable): Western Environmental - Mecca

5. TAT Level: 2

6. Sampling Information: a. Date/Time Sampled: 02/07/12 (mm/dd/yy) (#:## AM/PM)
b. Location: EPA ID No.
Site: Western Environmental - Mecca
Address: 62-150 Gene Welmas Avenue (street number)
Mecca, Ca (city, state, zip)
GPS-Lat: 33.595781 GPS-Long: -116.086148
GPS-Alt: GPS-Depth:

7. Codes (select from drop down list or fill in if applicable)
a. Unit E&ERP-Enforcement(Chatsworth)
b. INDEX 6310
c. PCA 36195
d. MPC 962
e. SITE 551115-48
f. County 33--Riverside

8. Samples:

a. ID	b. Collector's No.	c. ECL No.	d. Matrix	e. Container Size	f. Number of containers	g. Preservative / Field Information
1	WEI-Offsite-1	AV01845	Soil	2-4oz glass, 3-8oz glass	5	Ice
2	WEI-Offsite-2	AV01846	Soil	2-4oz glass, 3-8oz glass	5	Ice
3	WEI-Offsite-3	AV01847	Soil	2-4oz glass, 3-8oz glass	5	Ice
4	WEI-Offsite-4	AV01848	Soil	2-4oz glass, 3-8oz glass	5	Ice
5						
6						
7						
8						
9						

9. Analysis Requested: Enter sample IDs and sample ID ranges separated by commas. For example, 1-3, 5-7, 9

a. Inorganic Analysis	Sample(s) ID	b. Organic Analysis	Sample(s) ID
Cyanides for Wastes, Leachates(9010B)	1, 2, 3, 4	Pesticides - Chlorinated (8081B or 8081A)	1, 2, 3, 4
✓ Mercury in (Semi)Solid Waste (7471A)	1, 2, 3, 4	Pesticides - Organophosphate (8141B or 8141A)	1, 2, 3, 4
Metals Scan (ICP-AES, 6010B or 6010C)	1, 2, 3, 4	PCBs (8082A or 8082)	1, 2, 3, 4
pH for Solid (9045C)	1, 2, 3, 4	HPLC--PAHs (8310)	1, 2, 3, 4
Chromium VI by Colorimetric(7196A)	1, 2, 3, 4	Dioxins/Furans by HRGC/HRMS(ECL880-M)	1, 2, 3, 4
Other Metals:			

c. TCLP Analysis			d. Other Analysis	
Metals	(only If necessary)	1, 2, 3, 4	Metals STLC (only if necessary)	1, 2, 3, 4
Mercury	(only if necessary)	1, 2, 3, 4	Mercury STLC (only if Nec)	1, 2, 3, 4 CW 2/9/12

e. Comments for Multiphasic Samples/Analysis Priority:

10. Analysis Objective: Other (contact lab first). Please specify: Human Health Risk

11. Detection Limit Requirements: (Check ECL User's Manual to assure default DL is sufficient.)
Lowest Achievable

7473 for Hg not 7471

12. Supplemental Requests: Enter sample IDs as described in Item 9

Desired Analysis	Sample(s) ID

Initials
Date

13. ECL Lab Remarks:
MS, pH, WET, TCLP, PCB, OC1
5/1 2-8oz jars

ECL Berkeley Received 4-4oz jars + 4-8oz glass jars - LW

14. Chain of Custody:

	Name	Title	Signature	Inclusive Dates of Custody
a.	Wendy Arano	Engineering Geologist	Wendy Arano	2/7/2012 to 2/8/2012
b.	Greg Neal	Engineering Geologist	Greg Neal	2/8/12 to 2/8/12
c.	Barbara Bush	Lab Tech	Barbara Bush	2/8/12 to 2/8/12
d.	Lloyd Williams	Lab Tech	Lloyd Williams	2/9/12 to
e.				to
f.				to
g.				to

FIELD

LAB

COC

Department of Toxic Substances Control
Environmental Chemistry Laboratory
700 Heinz Avenue, Suite 150, Berkeley, CA 94710
Phone: (510) 540-3610 Fax: (510) 540-3615

ECL SAMPLE RECEIPT

Printed on: 2/9/2012

Authorization No: 11EC0105

Collector: Greg Neal

Date Collected: 2/7/2012

Date Lab Received: 2/9/2012

Sampling Site: WESTERN ENVIRONMENTAL -
62-150 Gene Welmas Avenue
Mecca, CA

ECL No.	Collector's No.	Sample Matrix	Container		Approximate Amount Rec' D	Custody Seals	Seal Location	Sample Condition	Action Taken
			Type	Size					
AV01845	WEI-OFFSITE-1	Soil	Glass	5(2-4oz glass, 3-8oz glass)	4oz-153.4;8oz-299.0	None		Acceptable	
AV01846	WEI-OFFSITE-2	Soil	Glass	5(2-4oz glass, 3-8oz glass)	4oz-139.2;8oz-279.4	None		Acceptable	
AV01847	WEI-OFFSITE-3	Soil	Glass	5(2-4oz glass, 3-8oz glass)	4oz-114.2;8oz-225.0	None		Acceptable	
AV01848	WEI-OFFSITE-4	Soil	Glass	5(2-4oz glass, 3-8oz glass)	4oz-153.9;8oz-305.7	None		Acceptable	

Comments:

4-4oz glass jars + 4-8oz glass jars

Sample(s) processed by: Lloyd Williams Signature: [signature] Date: 2/9/12

Supervisor's approval (if any action taken): Signature: _____ Date: _____

Environmental Chemistry Laboratory (ECL)
700 Heinz Avenue, Suite#150, Berkeley, CA 94710

Sample Receipt Check List

Authorization Number: 11EC0105

ECL NO. AV01845 - AV01848 Collector's No. See SAR

Sample Check up Criteria	Acceptable Yes	No
1. Sample received in a cooler/ ice chest?	✓	
2. Cooler/ ice chest packed with ice or blue ice?	✓	
3. Cooler/ ice chest temperature within 4^0 C +/- 2^0 C?	✓	
4. Sample condition acceptable (intact and no damage)?	✓	
5. Custody seal present?		✓
6. If yes, custody seal intact?		
7. Sample received in proper containers? (see Table 1 and 2)	✓	
8. Aqueous and liquid samples in 40 mL VOA vials And no head space?		
9. Is there sufficient amount/ volume for all analysis? (see Table 1 and 2)	✓	
10. Received Sample Analysis Request (SAR) with the samples?	✓	
11. Is SAR complete?	✓	
12. Do the No. of samples in SAR and the No. of samples in ARF agree? And within 20% range? # of samples split with ECL LA	✓	
13. Do sample labels agree with SAR?	✓	
14. Sample labels are legible and numbered?	✓	
15. Chain of Custody complete? Name printed, signed and dated ?	✓	
16. Samples properly preserved?	✓	
17 If received by FedEx or UPS, air bill/ packing slip signed, dated and made a copy for file?		

If No (not acceptable), Check for corrective action taken: Yes / No , if No why? _____

Sample login or analysis on hold due to missing information and inform the problem to the Collector
Explain problem _____ Date: _____
Problem corrected _____ Date: _____
OR
✓ Sample analyzed as received _____ Other comments (specify) _____

Received and completed by: Lloyd Williams

Signature: Lloyd Williams Date: 2/9/12

Supervisor's Approval (if any corrective action taken): _____ Date: _____

FedEx Express *NEW Package US Airbill*

FedEx Tracking Number 8768 1923 1284

Recipient's Copy

1 From

Date

Sender's Name — Phone

Company

Address — Dept./Floor/Suite/Room

City — State — ZIP

2 Your Internal Billing Reference

3 To

Recipient's Name — Phone

Company

Address — Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City — State — ZIP

HOLD Weekday — FedEx location address REQUIRED. NOT available for FedEx First Overnight.

HOLD Saturday — FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

8768 1923 1284

4 Express Package Service • To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs.
For packages over 150 lbs., use the new FedEx Express Freight US Airbill.

Next Business Day

- FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- NEW FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Express Saver* — Third business day.* Saturday Delivery NOT available.

5 Packaging • Declared value limit $500.

FedEx Envelope* | FedEx Pak* | FedEx Box | FedEx Tube | Other

6 Special Handling and Delivery Signature Options

SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

No Signature Required — Package may be left without obtaining a signature for delivery.

Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*

Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods? One box must be checked.

No | Yes — As per attached Shipper's Declaration | Yes — Shipper's Declaration not required. | Dry Ice — Dry Ice, 9, UN 1845 ____ kg | Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below.

Sender Acct. No. in Section 1 will be billed. | Recipient | Third Party | Credit Card | Cash/Check | Obtain recip. Acct. No.

Total Packages — Total Weight — Total Declared Value† — Credit Card Auth.

1 — ____ lbs. — $ ____ .00

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

612

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fedex.com 1.800.GoFedEx 1.800.463.3339

fedex.com 1.800.GoFedEx 1.800.463.3339

AV01845
Received Date: 2/9/2012
Requestor's Name: Greg Neal
Collector Sample ID: WEI-OFFSITE-1
Location Collected: 62-150 Gene Welmas Avenue
Mecca, CA
WEI MECCA SOIL
SAMPLE ID: WEI-offsite- 1
DATE: 2/7/2012
TIME: 0910
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK, JW
AV01846
Received Date: 2/9/2012
Requestor's Name: Greg Neal
Collector Sample ID: WEI-OFFSITE-2
Location Collected: 62-150 Gene Welmas Avenue
Mecca, CA
WEI MECCA SOIL
SAMPLE ID: WEI-offsite 2
DATE: 2/7/2012
TIME: 10:21
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK, JW
AV01847
Received Date: 2/9/2012
Requestor's Name: Greg Neal
Collector Sample ID: WEI-OFFSITE-3
Location Collected: 62-150 Gene Welmas Avenue
Mecca, CA
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-offsite 3
DATE: 2/7/2012
TIME: 0825
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK, JW
AV01848
Received Date: 2/9/2012
Requestor's Name: Greg Neal
Collector Sample ID: WEI-OFFSITE-4
Location Collected: 62-150 Gene Welmas Avenue
Mecca, CA
WEI MECCA SOIL
SAMPLE ID: WEI-offsite 4
DATE: 2/7/2012
TIME: 0944
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK, JW
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-offsite 1
DATE: 2/7/2012
TIME: 0910
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK, JW
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-offsite 2
DATE: 2/7/2012
TIME: 10:21
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK, JW
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-offsite 3
DATE: 2/7/2012
TIME: 0825
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK, JW
WEI MECCA SOIL
SAMPLE ID: WEI-offsite 4
DATE: 2/7/2012
TIME: 0944
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK, JW

Amended 3/30/12 MS

California Environmental Protection Agency
Department of Toxic Substances Control
Environmental Chemistry Laboratory
1449 W. Temple Street, Los Angeles, CA 90026
Telephone: (213) 977-7928

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

LABORATORY REPORT -- TOTAL METALS

Authorization No. : 11SC0105
ECL No.: AV01839-AV01842

Sampling Location: Western Environmental-Mecca
Address: 62-150 Gene Welmas Avenue, Mecca, CA

Requestor's Name: Greg Neal
Address: 5796 Corporate Avenue, Cypress, CA 90630

Table of Contents

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Case Narrative	2
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Sample Analysis Request	7
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The results listed within this report pertain only to the samples tested in the laboratory. These results have been reviewed for technical correctness and completeness. This report was reviewed and approved for release.

Report Reviewed by:
Mario Vinoya, Staff Chemist — Date 3/7/12

Report Approved by:
Mui Sam, Ph.D., Section Chief — Date 3/7/12

Amended 3/30/12 MS

California Environmental Protection Agency
Department of Toxic Substances Control
Environmental Chemistry Laboratory
1449 W. Temple Street, Los Angeles, CA 90026
Telephone: (213) 977-7928

LABORATORY REPORT -- TOTAL METALS

Authorization No. : 11SC0105 **Priority:** 2

ECL No.: AV01839-AV01842 **Page:** 2 of 9

1. Sampling Location: Western Environmental-Mecca
   Address: 62-150 Gene Welmas Avenue, Mecca, CA

2. Requestor' Name: Greg Neal
   Address: 5796 Corporate Avenue, Cypress, CA 90630

3. Sample (s) History:
   Date Collected: 2/7/2012
   Date Received: 2/8/2012
   Date Extracted/Digested: 2/13/2012 Method: EPA 3050 B
   Date Analyzed: 3/6/2012 Method: EPA 6010 C

   Date data package was completed: 3/7/2012

Case narrative:

1. Initial calibration and continuing calibration criteria were met? ☐ Yes ☑ No
2. Initial and Continuing Calibration blank criteria were met? ☐ Yes ☑ No
3. QC parameters were within control limits? ☑ Yes ☐ No
4. Sample holding time was met? ☑ Yes ☐ No

Comments:

If any of the above answer is "NO" please explain in details.

[1]Arsenic(As) and Selenium(Se) in the Inter-Elemental Correction (IEC) did not pass criteria, however spectral examination of the elements in the samples showed no Arsenic and Selenium present in the samples. [2]Silver (Ag) in the Initial Calibration Blank (ICB) was reading slightly high, but was below reporting limit. Selenium (Se) was reading slightly high on Continuing Calibration Blank (CCB), but it was below reporting limit.

Sample Prepared by:

Anna Toma Date 3/7/2012
Anna Toma, Chemist

Sample Analyzed by:

Anna Toma Date 3/7/2012
Anna Toma, Chemist

Amended 3/20/12 MS

California Environmental Protection Agency
Department of Toxic Substances Control
Environmental Chemistry Laboratory
1449 W. Temple Street, Los Angeles, CA 90026

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

LABORATORY REPORT -- TOTAL METALS

Authorization No. : 11SC0105
ECL No.: AV01839-AV01842

Priority: 2
Page: 3 of 9

Reference Method: EPA SW-846; EPA 6010 C
Analytical Procedure: Samples are digested with 2.5 ml HNO3 and 10 ml of HCl on hot plate, filtered, washed with hot 5 ml HCl and 10 ml DI water. Filter is redigest with 5 ml HCL and filter again.Digests are cooled and made to final volume with deionized water. Metals analysis of the digests is by ICP/AES.

ECL NO.	AV01839	AV01840	AV01841	AV01842		Method Blank	Reporting Limit (not corrected for dilution)	TTLC Limit
Requestor's No	WEI-Offsite-1	WEI-Offsite-2	WEI-Offsite-3	WEI-Offsite-4				
Digestion Date	2/13/2012	2/13/2012	2/13/2012	2/13/2012		2/13/2012		
Analysis Date	3/6/2012	3/6/2012	3/6/2012	3/6/2012		3/6/2012		
Dilution Factor	49.16	49.95	49.36	49.26		50.00		
Matrix Type	soil	soil	soil	soil		Aqueous		
Units	mg/kg	mg/kg	mg/kg	mg/kg		mg/L		mg/kg
Antimony-Sb	ND	ND	ND	ND		ND	0.50	500
Arsenic-As[J]	ND	ND	ND	ND		ND	0.50	500
Barium-Ba	242.8	129.6	82.30	209.8		ND	0.50	10000
Beryllium-Be	ND	ND	ND	ND		ND	0.10	75
Cadmium-Cd	ND	ND	ND	ND		ND	0.50	100
Chromium-Cr	37.20	27.50	ND	26.40		ND	0.50	2500
Cobalt-Co	ND	ND	ND	ND		ND	0.50	8000
Copper-Cu	34.20	ND	ND	29.10		ND	0.50	2500
Lead-Pb	ND	ND	ND	ND		ND	0.50	1000
Molybdenum-Mo	ND	ND	ND	ND		ND	0.50	3500
Nickel-Ni	25.98	ND	ND	ND		ND	0.50	2000
Silver-Ag	ND	ND	ND	ND		ND	0.50	500
Selenium-Se[J]	ND	ND	ND	ND		ND	0.50	100
Thallium-Tl	ND	ND	ND	ND		ND	0.50	700
Vanadium-V	73.60	55.30	43.50	65.90		ND	0.50	2400
Zinc-Zn	99.50	81.30	59.60	80.10		ND	0.50	5000

Quantitation Limit = Reporting Limit * Dilution Factor

[J]Results for Arsenic and Selenium are estimates because Inter-Elemental Correction (IEC) did not pass criteria, however spectral examinations of Arsenic and Selenium in the samples showed no Arsenic and Selenium present in samples.

Qualifiers:

ND	**Not detected < Quantitation Limit**
J	Estimated value
B	Analyte found in method blank (MB)
B1	Analyte found in MB. Analyte conc. in the sample is greater than 10X the conc. found in MB
M	MS/MSD % Recovery below control limits
M2	MS/MSD % Recovery above control Limits
R	% RPD exceeded Control Limits
H	Holding Time exceeded

Amended
3/30/12
MS

California Environmental Protection Agency
Department of Toxic Substances Control
Environmental Chemistry Laboratory
1449 W. Temple Street, Los Angeles, CA 90026

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

LABORATORY QUALITY CONTROL REPORT -- TOTAL METALS

Authorization No. : 11SC0105
ECL No.: AV01839-AV01842

Priority: 2
Page: 4 of 9

Quality Control Parameter	LABORATORY CONTROL SAMPLE							
Digestion Date	2/13/2012							
Analysis Date	3/6/2012							
Matrix Type	Aqueous LCS							
	True Value	Found	Recovery	Recovery Control Limits				
Units	mg/L	mg/L	%	%				
Antimony-Sb	10.0	9.778	98%	80-120				
Arsenic-As[J]	10.0	10.03	100%	80-120				
Barium-Ba	10.0	9.705	97%	80-120				
Beryllium-Be	2.0	2.108	105%	80-120				
Cadmium-Cd	2.0	1.991	100%	80-120				
Chromium-Cr	10.0	9.876	99%	80-120				
Cobalt-Co	10.0	10.21	102%	80-120				
Copper-Cu	10.0	10.20	102%	80-120				
Lead-Pb	10.0	10.12	101%	80-120				
Molybdenum-Mo	10.0	10.02	100%	80-120				
Nickel-Ni	10.0	10.40	104%	80-120				
Silver-Ag	10.0	10.32	103%	80-120				
Selenium-Se[J]	2.0	1.983	99%	80-120				
Thallium-Tl	10.0	9.791	98%	80-120				
Vanadium-V	10.0	9.686	97%	80-120				
Zinc-Zn	10.0	10.13	101%	80-120				

Quality Control Parameter	SAMPLE REPLICATE ANALYSIS			
Digestion Date	2/13/2012			
Analysis Date	3/6/2012			
Matrix Type	SOIL			
	ECL No.:	AV01839		Control
	A	B	RPD or RSD	Limits
Units	mg/kg	mg/kg	%	%
Antimony-Sb	ND	ND	ND	0-20
Arsenic-As[J]	ND	ND	ND	0-20
Barium-Ba	242.8	239.5	1.4%	0-20
Beryllium-Be	ND	ND	ND	0-20
Cadmium-Cd	ND	ND	ND	0-20
Chromium-Cr	37.20	36.02	3.2%	0-20
Cobalt-Co	ND	ND	ND	0-20
Copper-Cu	34.20	34.48	0.8%	0-20
Lead-Pb	ND	ND	ND	0-20
Molybdenum-Mo	ND	ND	ND	0-20
Nickel-Ni	25.95	24.77	4.7%	0-20
Silver-Ag	ND	ND	ND	0-20
Selenium-Se[J]	ND	ND	ND	0-20
Thallium-Tl	ND	ND	ND	0-20
Vanadium-V	73.60	74.30	0.95%	0-20
Zinc-Zn	99.45	99.80	0.4%	0-20

Note:
ND = Not Detected < Quantitation Limit
Quantitation Limit =
Lowest Calibration Standard x Dilution Factor
R = % RPD exceeded control limits

[J]Results for Arsenic and Selenium are estimat
because elements did not pass criteria in IEC.

Amended 3/30/12 MS

California Environmental Protection Agency
Department of Toxic Substances Control
Environmental Chemistry Laboratory
1449 W. Temple Street, Los Angeles, CA 90026

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

LABORATORY QUALITY CONTROL REPORT -- TOTAL METALS

Authorization No. : 11SC0105
ECL No.: AV01839-AV01842

Priority: 2
Page: 5 of 9

Quality Control Parameter	Matrix Spike/Matrix Spike Duplicate								
Digestion Date	2/13/2012								
Analysis Date	3/6/2012								
Matrix Type	SOIL								
	ECL No.AV01840		Matrix Spike		Matrix Spike Duplicate		MS/MSD RPD	Control Limits	
	Sample Unspiked	Spike Added	Amount Recovered	Recovery	Amount Recovered	Recovery		Recovery	RPD
Units	mg/L	mg/L	mg/L	%	mg/L	%	%	%	%
Antimony-Sb	ND	10.0	9.893	99%	9.678	97%	2%	75-125	0-20
Arsenic-As[J]	ND	10.0	10.31	103%	10.12	101%	2%	75-125	0-20
Barium-Ba	2.595	10.0	12.60	100%	12.25	97%	3%	75-125	0-20
Beryllium-Be	ND	2.00	2.100	105%	2.098	105%	0%	75-125	0-20
Cadmium-Cd	ND	2.00	2.113	106%	2.060	103%	3%	75-125	0-20
Chromium-Cr	0.551	10.0	10.71	102%	10.41	99%	3%	75-125	0-20
Cobalt-Co	ND	10.0	10.82	108%	10.48	105%	3%	75-125	0-20
Copper-Cu	ND	10.0	10.99	110%	10.84	108%	1%	75-125	0-20
Lead-Pb	ND	10.0	9.946	99%	9.700	97%	3%	75-125	0-20
Molybdenum-Mo	ND	10.0	10.10	101%	9.818	98%	3%	75-125	0-20
Nickel-Ni	ND	10.0	10.37	104%	10.05	101%	3%	75-125	0-20
Silver-Ag	ND	10.0	9.728	97%	9.620	96%	1%	75-125	0-20
Selenium-Se[J]	ND	2.00	1.646	82%	1.564	78%	5%	75-125	0-20
Thallium-Tl	ND	10.0	10.33	103%	9.992	100%	3%	75-125	0-20
Vanadium-V	1.108	10.0	11.25	101%	10.92	98%	3%	75-125	0-20
Zinc-Zn	1.627	10.0	11.30	97%	11.05	94%	2%	75-125	0-20

[J]Results for Arsenic and Selenium are estimates, because elements did not pass criteria in IEC.

Notes:
ND = Not Detected<Quantitation Limit
R = % RPD exceeded control limits

Quantitation Limit = Lowest Calibration Standard x dilution factor

Amended
3/30/12 ms

State of California
California Environmental Protection

Department of Toxic Substances Control
Environmental Chemistry Laboratory

SUPPLEMENTAL ☐
(Check if Supplemental Requested)

AUTHORIZATION REQUEST FORM (ARF)

PART A : (By Requestor - PLEASE PRINT)

*Unit chief's signature required: (for Rush or TAT Level = 1)

Turnaround Time (TAT) : *Rush ☐ *Level 1 ☐ 2 ☑ 3 ☐

Requestor's Name	Greg Neal	Email	gneal @dtsc.ca.gov	Phone	(714) 484-5455
Region	04--Cypress	Unit	BERP-Engineering & Geology	Fax	(714) 484-5411
Back-up Requestor	Alfredo Zanoria			Phone	(714) 484-5422
Site Name	Western Environmental Inc - Mecca				AREA CODE

PART B: Analytical Requests (By Requestor) (Lab uses default methods listed below. Please specify all other requests.)

Inorganic Analysis	Number of Samples/Type Solid	Liquid	Water	Other
% Dry Solids (ECL730-S)				
Acidity (305-1)				
Alkalinity (310-1)				
Anions by IC (9056)				
Chromium VI(Cr^{6+}) by Colorimetric (7196A)				
Chromium VI(Cr^{6+}) in Water by IC (7199)	4			
Cyanides for Wastes,Leachates (9010B)	4			
Hardness (130-2)				
Mercury(Hg) in (Semi)Solid Waste (7471A)				
Mercury(Hg) in Liquid Waste (7470A)				
Metals Screening by XRF				
Metals Scan (6010B, for As,Ba,Cu,Pb, etc)				
Metals Scan (for Drinking water, 6020A)	4			
OrganoLead in Waste (ECL938-M)				
Particle Size (ECL740-S)				
Perchlorate for Soil,Sludge (ECL955-M)				
Perchlorate for Water (314-0)				
pH (9040B, 9045C)	4			
Total Dissolved Solids (160-1)				
WET(ECL910-S) ☐ Only if necessary ☐ Do it regardless				
(others, type in) Metals STLC (if Necessary)	4			

TO ATL

Organic Analysis		Number of Samples/Type Solid	Liquid	Water	Other
GRO (Gasoline, 8015B)					
DRO(Diesel) only (ECL816-M)					
Motor Oil only (ECL816-M)					
DRO(Diesel) & Motor Oil (ECL816-M)					
EthyleneGlycol (ECL772-M)					
PBDEs (ECL750-M)					
PCBs (8082)		4			
Pesticides - Chlorinated (8081A)		4			
Pesticides - Organophosphate (8141A)					
1,4-Dioxane (ECL830-S)					
GC/MS	Semivolatiles (8270C)				
	Volatiles (8260B)				
HPLC	Carbonyl Compounds (8315A)				
	Explosives (8330)				
	PAHs (8310)				
Dioxins/Furans by HRGC/HRMS (ECL880-M)					
Flash Point (1020A)					
n-Hexane Extractables/TPH (1664)					
TXO-Total Halogens in Oil (ECL792-S)					
(others, type in)					
(others, type in)					

TCLP Analysis**			Number of Samples/Type Solid	Liquid	Water	Other
Metals	☑ Only if necessary	☐ Do it regardless	4			
Mercury	☐ Only if necessary	☐ Do it regardless				
Volatiles	☐ Only if necessary	☐ Do it regardless				
Semivolatiles	☐ Only if necessary	☐ Do it regardless				
(others, type in)						

Other Analysis	Number of Samples/Type Solid	Liquid	Water	Other
Fish Bioassay (Title 22)				
Congener PCBs (ECL-CG-PCB)				
Congener PBDEs (ECL-CG-PBDE)				
(others,type in)				
(others, type in)				

Analysis Objective: Site Characterization

Special Instructions or Comments (For Example: Detection Limit, Sample Preparation, Extraction..., etc.):

Lowest achieveable DLs. Dioxins/furans by EPA 8290 if DL is lower than ECL method. Cyanide by 9010 if DL is lower than 9014.

Expected Sample Arrival Date: 02/08/12 (mm/dd/yy)

PART C : (By SMO - ECL)

Authorization Number (AN) **11SC0105** ARF's Revision No. Initials: Date:

Lab to Receive Sample(s)

Sample Management Officer (SMO) AW

Southern California Lab
1449 W. Temple St. Rm. 105
Los Angeles, CA 90026
Barbara Bush (213) 482-9744

ARF's Revision No. Initials: Date:

☐ Check box if cancelled
Initials: Date:

Today's Date 02/01/12 (mm/dd/yy) Expiration Date 02/18/12 (mm/dd/yy)

If Sample(s) Directed to Contract Lab, Please Specify:

Reason:

ECL Contract Lab Manager Notification (for Rush or TAT Level =1):

ECL Personnel Confirmed:

Turnaround Time (TAT): * Rush for public health and safety or emergency, *Level 1 = 15 days, 2 = 30 days, 3 = 45 days.
**TCLP : If time permits and sample matrix type is appropriate, lab may analyze or screen the sample(s) first to determine if TCLP is needed.
Reference: ECL User's Manual.

Amended 3/30/12 ms

State of California
California Environmental Protection Agency

Department of Toxic Substances Control
Environmental Chemistry Laboratory

7

ENVIRONMENTAL CHEMISTRY LABORATORY SAMPLE ANALYSIS REQUEST	1. Authorization Number 11SC0105, 11AT0105, 11EC0105	ECL No.: AV01839 To AV01842	2. Page 1 of 1

3. Requestor: (to Receive Results) a. Name: Greg Neal
b. Address: 5796 Corporate Avenue (street number)
Cypress, Ca 90630 (city, state, zip)
c. Phone: (714) 484-5455 (area code first) d. Fax: (714) 484-5411 (area code first)
e. Email: gneal @dtsc.ca.gov

4. Project Name (if applicable): Western Environmental - Mecca

5. TAT Level: 2

6. Sampling Information: a. Date/Time Sampled: 02/07/12 (mm/dd/yy)
b. Location: EPA ID No. (#:## AM/PM)
Site: Western Environmental - Mecca
Address: 62-150 Gene Welmas Avenue (street number)
Mecca, Ca (city, state, zip)
GPS-Lat: 33.595781 GPS-Long: -116.086148
GPS-Alt: GPS-Depth:

7. Codes (select from drop down list or fill in if applicable)
a. Unit E&ERP-Enforcement(Chatsworth)
b. INDEX 6310
c. PCA 36195
d. MPC 962
e. SITE 551115-48
f. County 33--Riverside

8. Samples:

a. ID	b. Collector's No.	c. ECL No.	d. Matrix	e. Container Size	f. Number of containers	g. Preservative / Field Information
1	WEI-Offsite-1	AV01839	Soil	2-4oz glass, 3-8oz glass	5	Ice
2	WEI-Offsite-2	AV01840	Soil	2-4oz glass, 3-8oz glass	5	Ice
3	WEI-Offsite-3	AV01841	Soil	2-4oz glass, 3-8oz glass	5	Ice
4	WEI-Offsite-4	AV01842	Soil	2-4oz glass, 3-8oz glass	5	Ice
5						
6						
7						
8						
9						

9. Analysis Requested: Enter sample IDs and sample ID ranges separated by commas. For example, 1-3, 5-7, 9

a. Inorganic Analysis	Sample(s) ID	b. Organic Analysis	Sample(s) ID
Cyanides for Wastes, Leachates(9010B)	1, 2, 3, 4	Pesticides - Chlorinated (8081B or 8081A)	1, 2, 3, 4
Mercury in (Semi)Solid Waste (7471A)	1, 2, 3, 4	Pesticides - Organophosphate (8141B or 8141A)	1, 2, 3, 4
Metals Scan (ICP-AES, 6010B or 6010C)	1, 2, 3, 4	PCBs (8082A or 8082)	1, 2, 3, 4
pH for Solid (9045C)	1, 2, 3, 4	HPLC--PAHs (8310)	1, 2, 3, 4
Chromium VI by Colorimetric(7196A)	1, 2, 3, 4	Dioxins/Furans by HRGC/HRMS(ECL880-M)	1, 2, 3, 4
Other Metals:			

c. TCLP Analysis			d. Other Analysis	
Metals	(only If necessary)	1, 2, 3, 4	Metals STLC (only if necessary)	1, 2, 3, 4
Mercury	(only if necessary)	1, 2, 3, 4		

e. Comments for Multiphasic Samples/Analysis Priority:

10. Analysis Objective: Other (contact lab first). Please specify: Human Health Risk

11. Detection Limit Requirements: (Check ECL User's Manual to assure default DL is sufficient.)
Lowest Achievable

12. Supplemental Requests: Enter sample IDs as described in Item 9

Desired Analysis	Sample(s) ID

Initials
Date

ECL

13. ECL Lab Remarks:
MS, pH, WET, TCLP, PCB, OCL
5/1 2-8oz jars

FIELD

LAB

14. Chain of Custody:

	Name	Title	Signature	Inclusive Dates of Custody
a.	Wendy Arano	Engineering Geologist	Wendy Arano	2/7/2012 to 2/8/2012
b.	Greg Neal	Engineering Geologist	Greg Neal	2/8/12 to 2/8/12
c.	Barbara Bush	Lab Tech	Barbara Bush	2/8/12 to
d.				to
e.				to
f.				to
g.				to

COC

ENVIRONMENTAL CHEMISTRY LABORATORY - LOS ANGELES
1449 W. TEMPLE STREET
LOS ANGELES, CA 90026
(213) 482-9744 OR (213) 580-5797

Amended 3/30/12 MS

8

REVISION NO. 1, AUG 2002

SAMPLE RECEIPT

AUTHORIZATION NO. 11SC0105 ERP

DATE RECEIVED 2/8/12

HML SAMPLE NO(s). AV01839-42

RECORDED BY B Bush

CUSTODY SEALS [ ] PRESENT [X] ABSENT [ ] BROKEN

Circle All Partial (All) Partial On _____ Lab No.

SAMPLE CONDITION

1 [X] Acceptable

2 [ ] Sample container received damaged

3 [ ] Sample received in improper container

4 [ ] Insufficient sample volume/weight for analysis

5 [ ] Sample container not labeled or illegibly labeled

6 [ ] Discrepancies between the ARF and the SAR

7 [ ] Sample Analysis Request form not received with the sample(s)

8 [ ] Sample Analysis Request form not completed

9 [ ] Chain of custody not complete

10 [ ] Sample received without proper preservation

11 [ ] No information on sample preservation

12 [ ] Other (Specify) _____

CORRECTIVE ACTION TAKEN

[ ] None

[ ] Sample analysis on hold for more info

[ ] Inform sample collector of problem

[ ] Sample analyzed as received

[ ] Other (Specify)

_____

_____

To Project Managers - Be AWARE!

[ ] Samples were not deliver to LAB promptly after collection. Sample holding times may not be met.

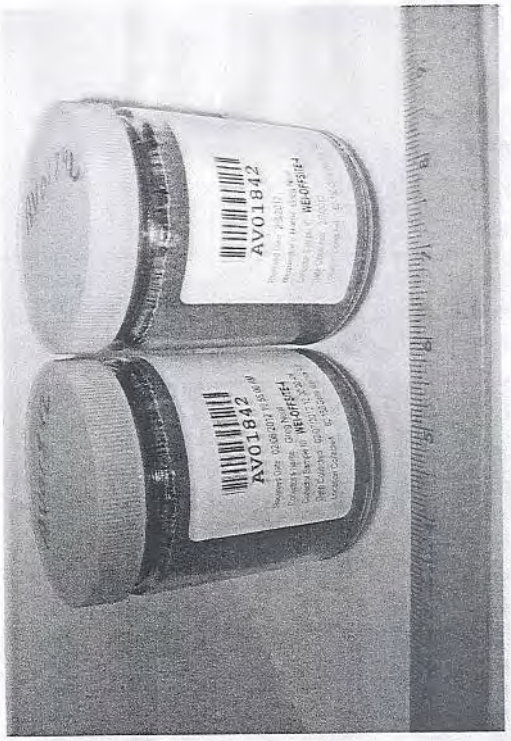
[ ] Samples were not properly packed causing breakage and leakage.

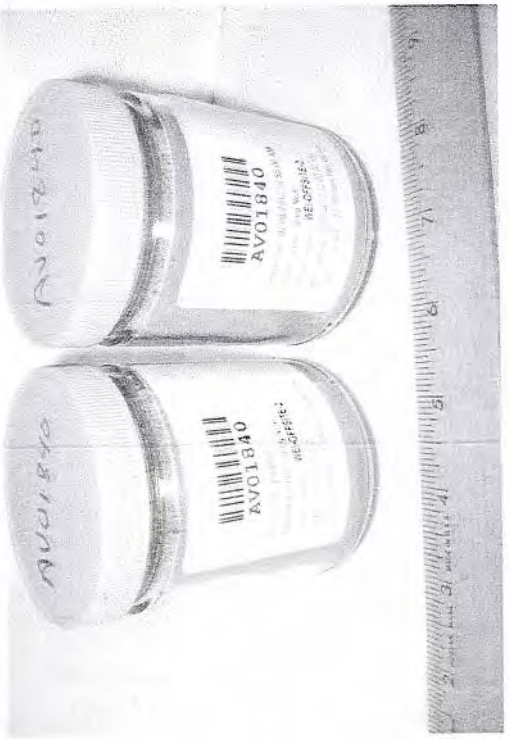
[ ] LAB was not informed of your special requests or special sample container (e.g., EnCore samplers)

In order for the Lab to handle your analyses efficiently, please avoid these problems from happening again.

	Date	CONTACTS MADE: FAXES, PHONE CALLS, E-MAILS, ETC.	Initial
1			
2			
3			
4			

Amended.
3/30/1~~25~~ MC





ADVANCED TECHNOLOGY LABORATORIES

March 08, 2012

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Juliet Tabajonda
Department of Toxic Substances Control
Environmental Chemistry Laboratory
Berkeley, CA 94710
Tel: (510) 540-3746
Fax:(510) 540-2305

Re: ATL Work Order Number : 1200469
Client Reference : 11AT0105

Enclosed are the results for sample(s) received on February 09, 2012 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

3275 Walnut Avenue, Signal Hill, CA 90755 • Tel: 562-989-4045 • Fax: 562-989-4040
www.atlglobal.com

Department of Toxic Substances Control		Project Number :	11AT0105
Environmental Chemistry Laboratory		Report To :	Juliet Tabajonda
Berkeley , CA 94710		Reported :	03/08/2012

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WEI-Offsite-1, AV01839	1200469-01	Soil	2/07/12 0:00	2/09/12 9:14
WEI-Offsite-2, AV01840	1200469-02	Soil	2/07/12 0:00	2/09/12 9:14
WEI-Offsite-3, AV01841	1200469-03	Soil	2/07/12 0:00	2/09/12 9:14
WEI-Offsite-4, AV01842	1200469-04	Soil	2/07/12 0:00	2/09/12 9:14

CASE NARRATIVE

Sample Receiving/General Comments:

1. All sample containers were received intact with proper chain of custody documentation.
2. Information on sample receipt conditions including discrepancies can be found in the attached Sample Receipt Acknowledgment Form.
3. Sample preservation was verified upon receipt of samples, if applicable.
4. All samples were analyzed with method holding times.

Department of Toxic Substances Control		Project Number :	11AT0105
Environmental Chemistry Laboratory		Report To :	Juliet Tabajonda
Berkeley , CA 94710		Reported :	03/08/2012

Client Sample ID WEI-Offsite-1, AV01839

Lab ID: 1200469-01

Cyanide, Total by EPA 9014 **Analyst: AG**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Cyanide, Total	ND	0.25	0.16	1	B2B0311	02/10/2012	02/10/12 12:44	

Department of Toxic Substances Control		Project Number :	11AT0105
Environmental Chemistry Laboratory		Report To :	Juliet Tabajonda
Berkeley , CA 94710		Reported :	03/08/2012

Client Sample ID WEI-Offsite-2, AV01840

Lab ID: 1200469-02

Cyanide, Total by EPA 9014 **Analyst: AG**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Cyanide, Total	ND	0.25	0.16	1	B2B0311	02/10/2012	02/10/12 12:44	

Department of Toxic Substances Control		Project Number :	11AT0105
Environmental Chemistry Laboratory		Report To :	Juliet Tabajonda
Berkeley , CA 94710		Reported :	03/08/2012

Client Sample ID WEI-Offsite-3, AV01841

Lab ID: 1200469-03

Cyanide, Total by EPA 9014 **Analyst: AG**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Cyanide, Total	ND	0.25	0.16	1	B2B0311	02/10/2012	02/10/12 12:44	

Department of Toxic Substances Control		Project Number :	11AT0105
Environmental Chemistry Laboratory		Report To :	Juliet Tabajonda
Berkeley , CA 94710		Reported :	03/08/2012

Client Sample ID WEI-Offsite-4, AV01842
Lab ID: 1200469-04

Cyanide, Total by EPA 9014 **Analyst: AG**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Cyanide, Total	ND	0.25	0.16	1	B2B0311	02/10/2012	02/10/12 12:44	

QUALITY CONTROL SECTION

Cyanide, Total by EPA 9014 - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0311 - Prep_WC_3_S									
Blank (B2B0311-BLK1)				Prepared: 2/10/2012 Analyzed: 2/10/2012					
Cyanide, Total	ND	0.25			NR				
LCS (B2B0311-BS1)				Prepared: 2/10/2012 Analyzed: 2/10/2012					
Cyanide, Total	9.7	0.25	10.0		97	80 - 120			
Duplicate (B2B0311-DUP1)		**Source: 1200469-01**		Prepared: 2/10/2012 Analyzed: 2/10/2012					
Cyanide, Total	ND	0.25		ND	NR			20	
Matrix Spike (B2B0311-MS1)		**Source: 1200469-01**		Prepared: 2/10/2012 Analyzed: 2/10/2012					
Cyanide, Total	10	0.25	10.0	ND	101	80 - 120			
Matrix Spike Dup (B2B0311-MSD1)		**Source: 1200469-01**		Prepared: 2/10/2012 Analyzed: 2/10/2012					
Cyanide, Total	9.5	0.25	10.0	ND	95	80 - 120	6	20	

Department of Toxic Substances Control		Project Number :	11AT0105
Environmental Chemistry Laboratory		Report To :	Juliet Tabajonda
Berkeley , CA 94710		Reported :	03/08/2012

Notes and Definitions

ND	Analyte not detected at or above reporting limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

State of California
California Environmental Protection Agency

Department of Toxic Substances Control
Environmental Chemistry Laboratory

ENVIRONMENTAL CHEMISTRY LABORATORY SAMPLE ANALYSIS REQUEST

1. Authorization Number 11SC0105, 11AT0105, 11EC0105

ECL No.: AV01839 To AV01842

2. Page 1 of 1

3. Requestor: (to Receive Results) a. Name: Greg Neal
b. Address: 5796 Corporate Avenue (street number)
Cypress, Ca 90630 (city, state, zip)
c. Phone: (714) 484-5455 (area code first) d. Fax: (714) 484-5411 (area code first)
e. Email: gneal @dtsc.ca.gov

4. Project Name (if applicable): Western Environmental - Mecca

5. TAT Level: 2

6. Sampling Information: a. Date/Time Sampled. 02/07/12 (mm/dd/yy) (#:## AM/PM)
b. Location: EPA ID No.
Site: Western Environmental - Mecca
Address: 62-150 Gene Welmas Avenue (street number)
Mecca, Ca (city, state, zip)
GPS-Lat: 33.595781 GPS-Long: -116.086148
GPS-Alt: GPS-Depth:

7. Codes (select from drop down list or fill in if applicable)
a. Unit E&ERP-Enforcement(Chatsworth)
b. INDEX 6310
c. PCA 36195
d. MPC 962
e. SITE 551115-48
f. County 33--Riverside

8. Samples:

	a. ID	b. Collector's No.	c. ECL No.	d. Matrix	e. Container Size	f. Number of containers	g. Preservative / Field Information
1200469-1	1	WEI-Offsite-1	AV01839	Soil	2-4oz glass, 3-8oz glass	5	Ice
-2	2	WEI-Offsite-2	AV01840	Soil	2-4oz glass, 3-8oz glass	5	Ice
-3	3	WEI-Offsite-3	AV01841	Soil	2-4oz glass, 3-8oz glass	5	Ice
-4	4	WEI-Offsite-4	AV01842	Soil	2-4oz glass, 3-8oz glass	5	Ice
	5						
	6						
	7						
	8						
	9						

9. Analysis Requested: Enter sample IDs and sample ID ranges separated by commas. For example, 1-3, 5-7, 9

a. Inorganic Analysis	Sample(s) ID	b. Organic Analysis	Sample(s) ID
Cyanides for Wastes, Leachates(9010B)	1, 2, 3, 4	Pesticides - Chlorinated (8081B or 8081A)	1, 2, 3, 4
Mercury in (Semi)Solid Waste (7471A)	1, 2, 3, 4	Pesticides - Organophosphate (8141B or 8141A)	1, 2, 3, 4
Metals Scan (ICP-AES, 6010B or 6010C)	1, 2, 3, 4	PCBs (8082A or 8082)	1, 2, 3, 4
pH for Solid (9045C)	1, 2, 3, 4	HPLC--PAHs (8310)	1, 2, 3, 4
Chromium VI by Colorimetric(7196A)	1, 2, 3, 4	Dioxins/Furans by HRGC/HRMS(ECL880-M)	1, 2, 3, 4
Other Metals:			

c. TCLP Analysis			d. Other Analysis	
Metals	(only If necessary)	1, 2, 3, 4	Metals STLC (only if necessary)	1, 2, 3, 4
Mercury	(only if necessary)	1, 2, 3, 4		

e. Comments for Multiphasic Samples/Analysis Priority:

10. Analysis Objective: Other (contact lab first). Please specify: Human Health Risk

11. Detection Limit Requirements: (Check ECL User's Manual to assure default DL is sufficient.)
Lowest Achievable

12. Supplemental Requests: Enter sample IDs as described in Item 9

Desired Analysis	Sample(s) ID

Initials _____
Date _____

13. ECL Lab Remarks:
MS, pH, WET, TCLP, PCB, OCI
5/1 2-8oz jars

14. Chain of Custody:

	Name	Title	Signature	Inclusive Dates of Custody
a.	Wendy Arano	Engineering Geologist	Wendy Arano	2/7/2012 to 2/8/2012
b.	Greg Neal	Engineering Geologist	Greg Neal	2/8/12 to 2/8/12
c.	Barbara Bush	Lab Tech	Barbara Bush	2/8/12 to 2/8/12
d.	Mayo	Lab Tech	[illegible]	2/9/12 9:44 to
e.				to
f.				to
g.				to

FIELD

LAB

ECL

COC

40
Bill

State of California
California Environmental Protection

Department of Toxic Substances Control
Environmental Chemistry Laboratory

SUPPLEMENTAL ☐
(Check if Supplemental Requested)

AUTHORIZATION REQUEST FORM (ARF)

PART A : (By Requestor - PLEASE PRINT)

Unit chief's signature required: (for Rush or TAT Level = 1)

Turnaround Time (TAT) : *Rush ☐ *Level 1 ☐ 2 ☑ 3 ☐

Requestor's Name	Greg Neal	Email	gneal @dtsc.ca.gov	Phone (714) 484-5455
Region	04–Cypress	Unit	BERP-Engineering & Geology	Fax (714) 484-5411
Back-up Requestor	Alfredo Zanoria			Phone (714) 484-5422
Site Name	Western Environmental Inc - Mecca			AREA CODE

PART B: Analytical Requests (By Requestor) (Lab uses default methods listed below. Please specify all other requests.)

Inorganic Analysis	Number of Samples/Type Solid	Liquid	Water	Other
% Dry Solids (ECL730-S)				
Acidity (305-1)				
Alkalinity (310-1)				
Anions by IC (9056)				
Chromium VI(Cr^{6+}) by Colorimetric (7196A)				
Chromium VI(Cr^{6+}) in Water by IC (7199)				
Cyanides for Wastes,Leachates (9010B)	4			
Hardness (130-2)				
Mercury(Hg) in (Semi)Solid Waste (7471A)				
Mercury(Hg) in Liquid Waste (7470A)				
Metals Screening by XRF				
Metals Scan (6010B, for As,Ba,Cu,Pb, etc)				
Metals Scan (for Drinking water, 6020A)				
OrganoLead in Waste (ECL938-M)				
Particle Size (ECL740-S)				
Perchlorate for Soil,Sludge (ECL955-M)				
Perchlorate for Water (314-0)				
pH (9040B, 9045C)				
Total Dissolved Solids (160-1)				
WET(ECL910-S) ☐ Only if necessary ☐ Do it regardless				
(others, type in)				

Organic Analysis	Number of Samples/Type Solid	Liquid	Water	Other
GRO (Gasoline, 8015B)				
DRO(Diesel) only (ECL816-M)				
Motor Oil only (ECL816-M)				
DRO(Diesel) & Motor Oil (ECL816-M)				
EthyleneGlycol (ECL772-M)				
PBDEs (ECL750-M)				
PCBs (8082)				
Pesticides - Chlorinated (8081A)				
Pesticides - Organophosphate (8141A)				
1,4-Dioxane (ECL830-S)				
GC/MS Semivolatiles (8270C)				
Volatiles (8260B)				
HPLC Carbonyl Compounds (8315A)				
Explosives (8330)				
PAHs (8310)				
Dioxins/Furans by HRGC/HRMS (ECL880-M)				
Flash Point (1020A)				
n-Hexane Extractables/TPH (1664)				
TXO-Total Halogens in Oil (ECL792-S)				
(others, type in)				
(others, type in)				

TCLP Analysis**					
Metals	☐ Only if necessary ☐ Do it regardless				
Mercury	☐ Only if necessary ☐ Do it regardless				
Volatiles	☐ Only if necessary ☐ Do it regardless				
Semivolatiles	☐ Only if necessary ☐ Do it regardless				
(others, type in)					

Other Analysis				
Fish Bioassay (Title 22)				
Congener PCBs (ECL-CG-PCB)				
Congener PBDEs (ECL-CG-PBDE)				
(others,type in)				
(others, type in)				

Analysis Objective: Site Characterization

Special Instructions or Comments (For Example: Detection Limit, Sample Preparation, Extraction..., etc.):

Lowest achieveable DLs. Dioxins/furans by EPA 8290 if DL is lower than ECL method. Cyanide by 9010 if DL is lower than 9014.

Expected Sample Arrival Date: 02/08/12 (mm/dd/yy)

PART C : (By SMO - ECL)

Authorization Number (AN): **11AT0105**

ARF's Revision No. Initials: Date:

Lab to Receive Sample(s): Advanced Technology Labs, 3275 Walnut Avenue, Signal Hill, CA 90755, Attn: Diane Galvin (562)989-4045

ARF's Revision No. Initials: Date:

Sample Management Officer (SMO): LW.

☐ Check box if cancelled Initials: Date:

Today's Date 02/01/12 (mm/dd/yy) Expiration Date 02/18/12 (mm/dd/yy)

If Sample(s) Directed to Contract Lab, Please Specify:

Reason:

ECL Contract Lab Manager Notification (for Rush or TAT Level =1):

ECL Personnel Confirmed:

Turnaround Time (TAT): * Rush for public health and safety or emergency, *Level 1 = 15 days, 2 = 30 days, 3 = 45 days.
**TCLP . If time permits and sample matrix type is appropriate, lab may analyze or screen the sample(s) first to determine if TCLP is needed.
Reference: ECL User's Manual.

4 - 4 oz JARS

ECL01 (REV 04/09)

Carmen Aguila

From: Barbara Bush [BBush@dtsc.ca.gov]
Sent: Wednesday, February 08, 2012 1:48 PM
To: Carmen Aguila; Lloyd Williams
Subject: 11EC0105 & 11AT0105
Attachments: Barbara Bush8.vcf

HI LLOYD AND CARMEN,

I sent you coolers for the Mecca site. Lloyd, you will be getting 4 4-oz & 4 8-oz. jars. Carmen, you will be getting 4 4-oz. jars for cyanide analysis.

Any questions, call me at 213-482-9744. Please return the coolers this week via FedEx Ground.

Thank you
Barbara

Barbara Bush
Dept. of Toxic Substances Control
Environmental Chemistry Laboratory-LA
1449 W. Temple St.
Los Angeles, Calif. 90026
213-482-9744

ADVANCED TECHNOLOGY LABORATORIES

Sample Receipt Acknowledgement

Work Order # 1200469

Client:	**Department of Toxic Substances Control**	**Project Manager:**	**Diane Galvan**
Project:	**11AT0105**	**Project Number:**	**11AT0105**

Report To:
Department of Toxic Substances Control
Juliet Tabajonda
Environmental Chemistry Laboratory
Berkeley, CA 94710
Phone: (510) 540-3746
Fax: (510) 540-2305

Invoice To:
Department of Toxic Substances Control
Juliet Tabajonda
Environmental Chemistry Laboratory
Berkeley, CA 94710
Phone :(510) 540-3746
Fax: (510) 540-2305

Date Due:	02/20/12 17:30 (7 day TAT)	Date Received:	02/09/12 09:14
Received By:	Margo Penaflor	Date Logged In:	02/09/12 11:09
Logged In By:	Ron Diwa	Shipped by:	FEDEX

Please review the checklist below. Any NO response signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed a as requested regardless of any compliance issues. If you have any questions or further instructions, please contact your Project Manager at (526) 989-4045.

Sample(s) received on ice?	Yes	☐	No	☑
Sample(s) received on blue ice?	Yes	☑	No	☐
Cooler temperature within acceptance limit?	Yes	☑	No	☐
Shipping container received in good condition?	Yes	☑	No	☐
Custody seals present on shipping container?	Yes	☐	No	☑
Custody seals intact on shipping container?	Yes	☐	No	☑
Custody seals present on sample bottles?	Yes	☐	No	☑
Custody seals intact on sample bottles?	Yes	☐	No	☑
Chain of Custody (COC) present?	Yes	☑	No	☐
Sampler name present in COC?	Yes	☑	No	☐
COC signed when relinquished and received?	Yes	☑	No	☐
COC agrees with sample labels?	Yes	☑	No	☐
Samples in proper container/bottle?	Yes	☑	No	☐
Sample containers intact?	Yes	☑	No	☐
Sufficient sample amount for indicated tests?	Yes	☑	No	☐
All samples received within holding time?	Yes	☑	No	☐
VOA vials for VOC meet headspace criteria?	Yes	☐	No	☑
Water samples meet preservation criteria?	Yes	☐	No	☑

Default Cooler	Temp: 4.0 °C

Sample Receipt Comments:

FedEx Express **NEW** Package US Airbill

FedEx Tracking Number 8768 1923 1295

Form ID No. 0200

Recipient's Copy

1 From

Date

Sender's Name Phone

Company

Address Dept./Floor/Suite/Room

City State ZIP

2 Your Internal Billing Reference

3 To

Recipient's Name Phone

Company

Address
We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept./Floor/Suite/Room

Address
Use this line for the HOLD location address or for continuation of your shipping address.

City State ZIP

☐ HOLD Weekday
FedEx location address REQUIRED. **NOT available for** FedEx First Overnight.

☐ HOLD Saturday
FedEx location address REQUIRED. **Available ONLY for** FedEx Priority Overnight and FedEx 2Day to select locations.

8768 1923 1295

4 Express Package Service * To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs.
For packages over 150 lbs., use the new FedEx Express Freight US Airbill.

Next Business Day

☐ FedEx First Overnight
Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☐ FedEx Priority Overnight
Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☐ FedEx Standard Overnight
Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

☐ **NEW** FedEx 2Day A.M.
Second business morning.* Saturday Delivery NOT available.

☐ FedEx 2Day
Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected

☐ FedEx Express Saver
Third business day.* Saturday Delivery NOT available

5 Packaging * Declared value limit $500.

☐ FedEx Envelope* ☐ FedEx Pak* ☐ FedEx Box ☐ FedEx Tube ☐ Other

6 Special Handling and Delivery Signature Options

☐ SATURDAY Delivery
NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver

☐ No Signature Required
Package may be left without obtaining a signature for delivery.

☐ Direct Signature
Someone at recipient's address may sign for delivery. ***Fee applies.***

☐ Indirect Signature
If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. ***Fee applies.***

Does this shipment contain dangerous goods?

One box must be checked

☐ No ☐ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required. ☐ Dry Ice Dry Ice, 9, UN 1845 _____ x _____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

☐ Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below.

Obtain recip Acct. No ☐

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

Total Packages Total Weight Total Declared Value† Credit Card Auth.

_____ _____ lbs. $ _____ .00 _____

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

612

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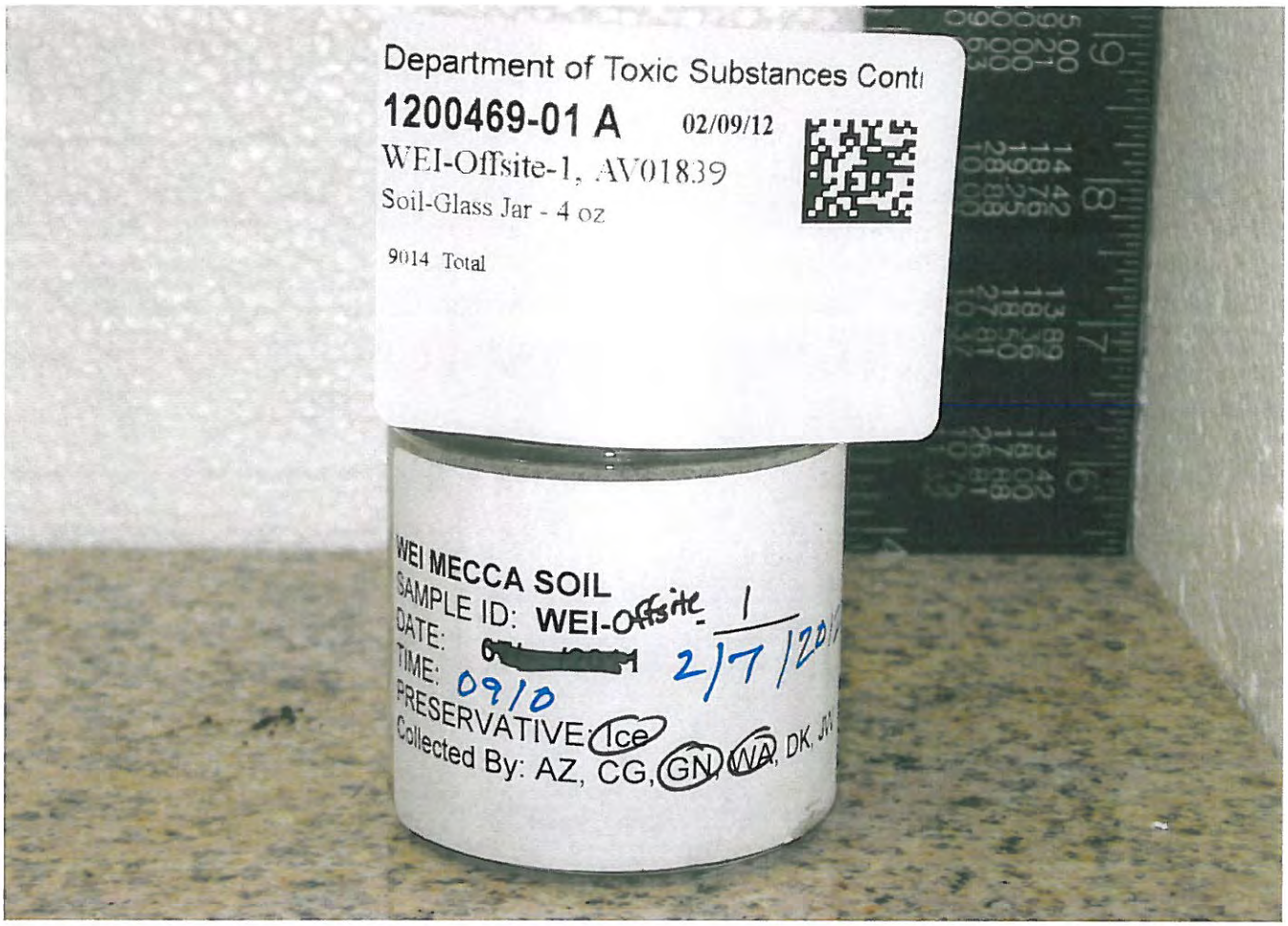
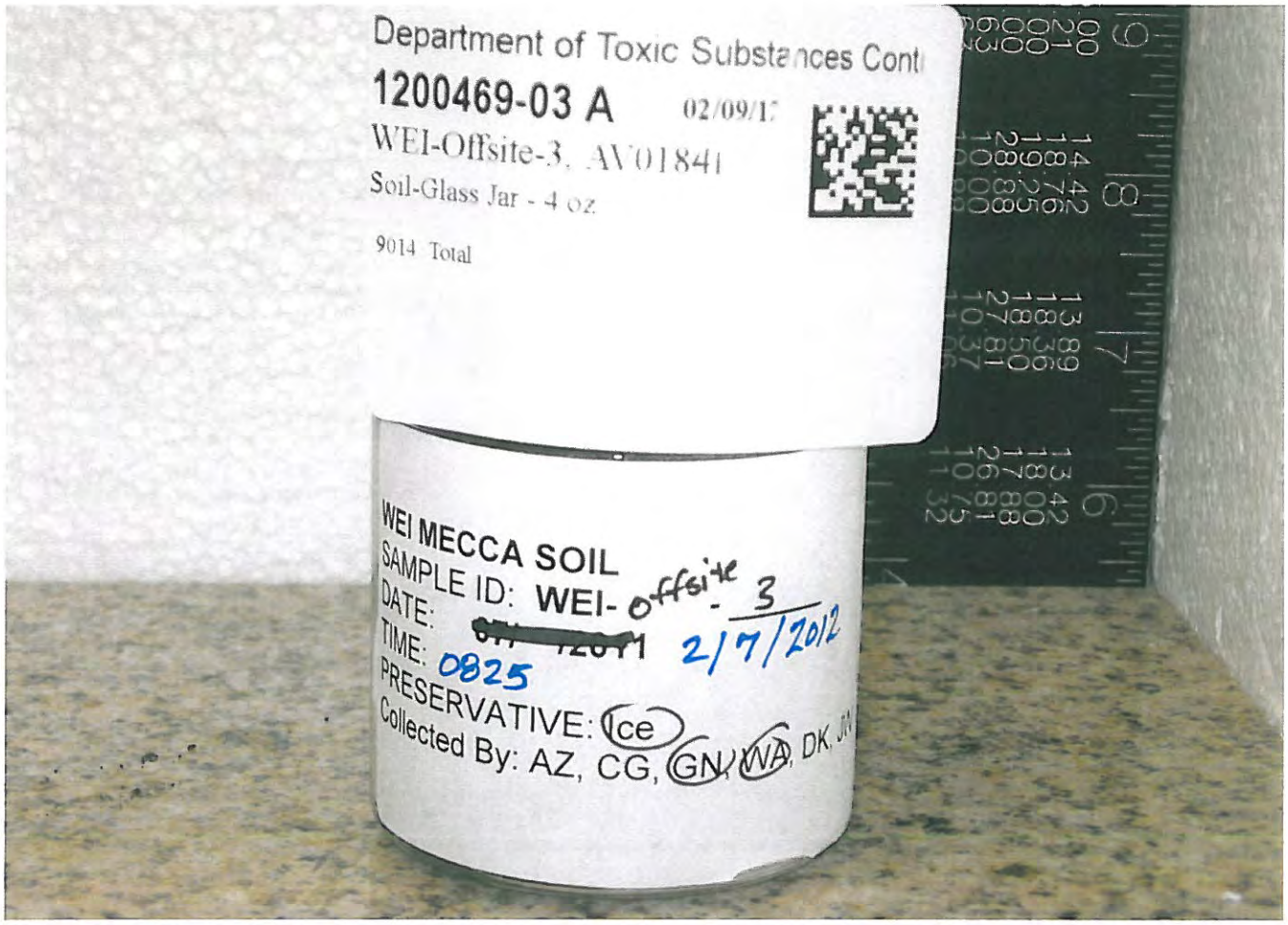
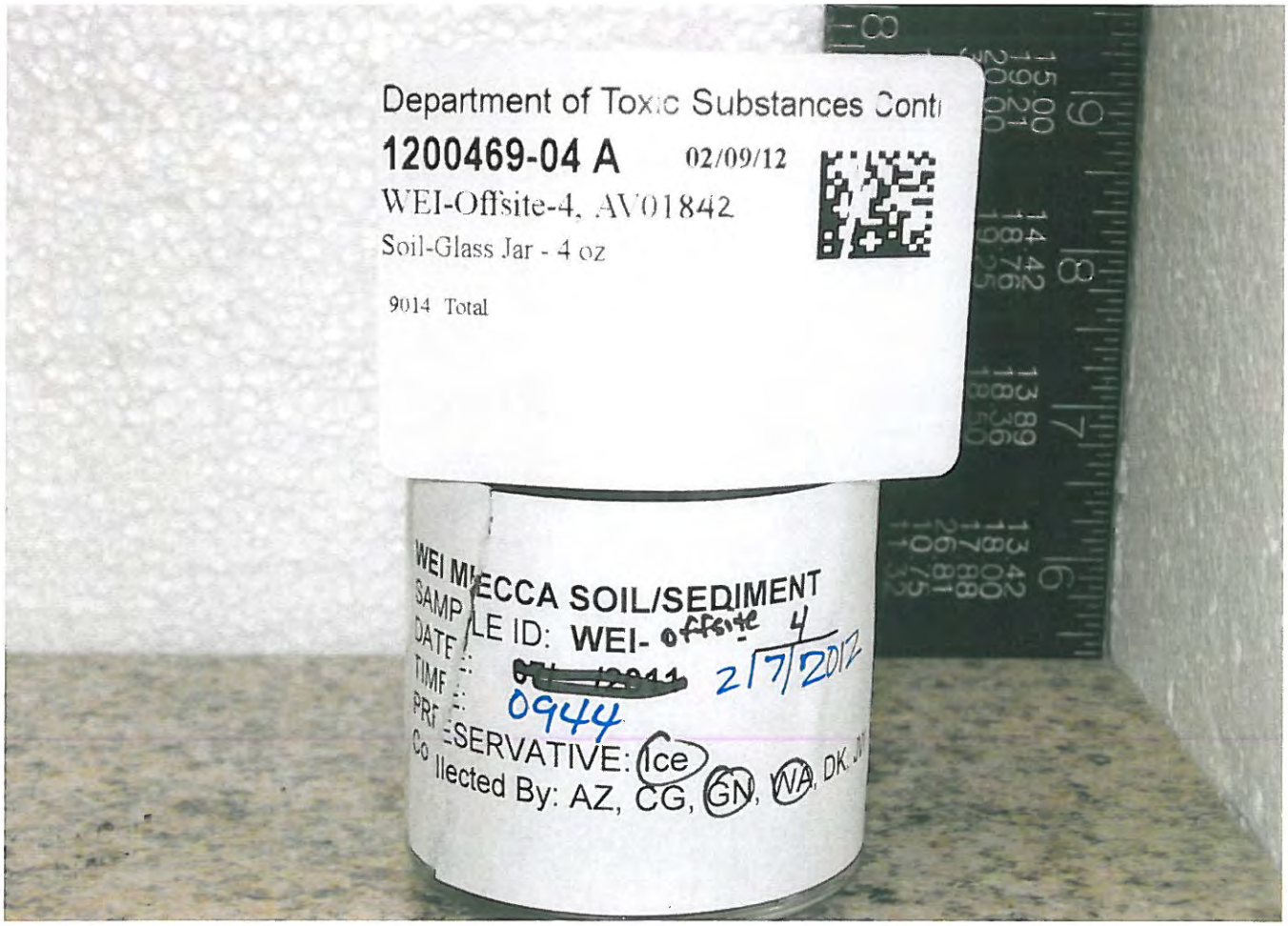
fedex.com 1.800.GoFedEx 1.800.463.3339


Department of Toxic Substances Cont
1200469-01 A 02/09/12
WEI-Offsite-1, AV01839
Soil-Glass Jar - 4 oz
9014 Total
WEI MECCA SOIL
SAMPLE ID: WEI-Offsite-1
DATE: 2/7/2012
TIME: 0910
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK, JN

Department of Toxic Substances Cont
1200469-02 A 02/09/12
WEI-Offsite-2, AV01840
Soil-Glass Jar - 4 oz
9014 Total
WEI MECCA SOIL
SAMPLE ID: WEI-offsite 2
DATE: 2/7/2012
TIME: 10:21
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK, JN


Department of Toxic Substances Conti
1200469-03 A
02/09/1
WEI-Offsite-3, AV01841
Soil-Glass Jar - 4 oz
9014 Total
WEI MECCA SOIL
SAMPLE ID: WEI- offsite - 3
DATE: 2/7/2012
TIME: 0825
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK, JV


Department of Toxic Substances Conti
1200469-04 A
02/09/12
WEI-Offsite-4, AV01842
Soil-Glass Jar - 4 oz
9014 Total
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI- offsite 4
DATE: 2/7/2012
TIME: 0944
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK, JV

CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY
700 HEINZ AVE SUITE 100, BERKELEY, 94710
Tel. 510-540-3003 FAX 510-540-2305

DIOXIN/FURAN REPORT

Sample Nos:	AV01845, AV01845-dup, AV01846, AV01847, AV01848
Collector Nos:	WEI-Offsite-1, WEI-Offsite-2, WEI-Offsite-3, WEI-Offsite-4
Sample type	Soil
Sample Location	Western Environmental Inc; Mecca
Procedure	EPA-1613
Run:	
Instrument	MAT-95
Blank File	
GC Parameter File:	1613_60mdb5_03b
MS Parameter File:	1613_pfk_60mdioxin2_a
Autosampler File:	a200s_b
Comments:	

SAMPLE PREP:	Roshni Sarala	Signature: Rosh	Date: 3/26/12
GC/MS ANALYST:	Joginder Dhaliwal	Signature: JSDhaliwal	Date: 3/26/12
REVIEWING ANALYST:	Reber Brown	Signature: Reber Brown	Date: 03/26/12
SUPERVISOR:	June-Soo Park	Signature: Park June-Soo	Date: 3-27-12

CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY

Tel. 510-540-3003 Fax# 510-540-2305

DIOXIN/FURAN REPORT

collector's name: Greg Neal
collector's phone: 714-484-5455 Report Date: 3/23/2012
sampling site: Western Environment

ECL: AV01845, AV01845-dup, AV01846, AV01847, AV01848

HML-NUMBER :	AV01845		AV01845-dup		AV01846		AV01847		AV01848			
COLLECTOR'S NUMBER	WEI-Offsite-1		WEI-Offsite-1		WEI-Offsite-2		WEI-Offsite-3		WEI-Offsite-4			
MATRIX	soil		soil		soil		soil		soil			
MOISTURE CONTENT												
FAT %	N/A		N/A		N/A		N/A		N/A		N/A	
UNITS	pg/g (dry wt)		pg/g (dry wt)		pg/g (dry wt)		pg/g (dry wt)		pg/g (dry wt)		pg/g (dry wt)	
2,3,7,8-Cl4DD	0.080	ND	0.100	ND	0.140	ND	0.140	B, I	0.050	ND		
1,2,3,7,8-Cl5DD	0.733	B, I	0.180	ND	0.200	ND	0.250	B, I	0.524	B		
1,2,3,4,7,8-Cl6DD	0.130	ND	0.080	ND	0.180	ND	0.58	D, I	0.474	B, I		
1,2,3,6,7,8-Cl6DD	1.30	D	0.856	B, I	0.270	B, I	0.730	B, I	0.603	B, I		
1,2,3,7,8,9-Cl6DD	1.02	D	0.655	B, I	0.260	ND	1.10	D, I	0.090	B, I		
1,2,3,4,6,7,8-Cl7DD	0.802	B, I	0.200	B, I	11.2	I	1.71	B, I	1.03	B, I		
1,2,3,4,6,7,8,9-Cl8DD	5.06	D	2.23	B, I	136		3.76	D, I	10.2	I		
2,3,7,8-Cl4DF	0.400	D, I	0.100	ND	0.120	B, I	0.350	D, I	0.060	ND		
1,2,3,7,8-Cl5DF	0.18	B, I	0.410	B	0.58	B, I	0.640	B, I	0.314	B, I		
2,3,4,7,8-Cl5DF	0.119	B, I	0.080	B, I	0.403	B	0.259	B	0.330	B, I		
1,2,3,4,7,8-Cl6DF	0.14	ND	0.709	B	0.675	B, I	0.949	B, I	0.14	B, I		
1,2,3,6,7,8-Cl6DF	0.626	B, I	0.861	B	0.475	B, I	0.120	ND	0.310	B, I		
1,2,3,7,8,9-Cl6DF	2.06	D	0.557	B, I	0.190	ND	0.140	B	0.250	B, I		
2,3,4,6,7,8-Cl6DF	0.813	D	0.483	B, I	0.250	B, I	0.300	B, I	0.060	B, I		
1,2,3,4,6,7,8-Cl7DF	0.968	B	0.840	B	1.71	B, I	0.408	B, I	0.388	B, I		
1,2,3,4,7,8,9-Cl7DF	1.11	B	0.170	ND	0.220	B, I	0.453	B, I	0.130	B, I		
1,2,3,4,6,7,8,9-Cl8DF	2.98	B	1.58	B, I	7.03	B, I	0.59	ND	0.42	B, I		
PCB-77												
PCB-81												
PCB-126												
PCB-169												
Cl4DD	0.00		0.14		0.00		1.69		0.50			
Cl5DD	0.00		0.00		0.00		2.03		2.72			
Cl6DD	2.62		0.00		0.00		3.16		3.08			
Cl7DD	1.60		0.00		0.00		5.71		5.06			
Cl4DF	0.00		0.00		0.00		1.47		2.45			
Cl5DF	0.00		0.64		0.00		2.05		2.37			
Cl6DF	0.66		0.62		0.00		1.63		1.18			
Cl7DF	2.08		1.12		0.00		4.12		2.44			
13C-2,3,7,8-Cl4DD %REC	96.7		87.0		94.1		89.7		101			
13C-1,2,3,7,8-Cl5DD %REC	102		88.1		104		98.0		111			
13C-1,2,3,4,7,8-Cl6DD %REC	83.6		92.2		81.8		82.9		101			
13C-1,2,3,6,7,8-Cl6DD %REC	69.0		70.6		69.8		69.8		83.4			
13C-1,2,3,4,6,7,8-Cl7DD %REC	88.0		85.4		97.5		96.0		107			
13C-1,2,3,4,6,7,8,9-Cl8DD %REC	81.1		76.4		90.3		98.6		108			
13C-2,3,7,8-Cl4DF %REC	85.6		78.1		85.1		79.8		92.0			
13C-1,2,3,7,8-Cl5DF %REC	86.7		76.8		86.3		81.6		92.5			
13C-2,3,4,7,8-Cl5DF %REC	92.7		86.2		95.7		92.4		102			
13C-1,2,3,4,7,8-Cl6DF %REC	46.0		48.1		37.8		34.9		81.7			
13C-1,2,3,6,7,8-Cl6DF %REC	51.5		54.2		42.7		43.2		89.6			
13C-1,2,3,7,8,9-Cl6DF %REC	85.4		81.0		87.7		84.6		94.0			
13C-2,3,4,6,7,8-Cl6DF %REC	80.4		73.5		86.8		80.8		91.8			
13C-1,2,3,4,6,7,8-Cl7DF %REC	59.6		58.1		58.9		57.7		87.3			
13C-1,2,3,4,7,8,9-Cl7DF %REC	103		89.8		108		94.4		107			
13C-PCB-77 %REC												
13C-PCB-126 %REC												
13C-PCB-169 %REC												
i-TEQ(H) PCB-TEQ(4 PCBs) - Soil/Ash	1.51		0.63		0.76		1.00		0.94		0.00	

NA=Not determined N/A=Not Applicable ND=Less than MDL D=Less than QL I=Interference B=Upper Limit

PATH

CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY

Tel. 510-540-3003 Fax# 510-540-2305

DIOXIN/FURAN REPORT

collector's name: Greg Neal **QA/QC** ECL: AV01845, AV01845-dup, AV01846, AV01847, AV01848
collector's phone: 714-484-5455 Report Date: 3/23/2012
sampling site: Western Environmental Inc; Mec

HML-NUMBER :	Method Blank							
COLLECTOR'S NUMBER								
MATRIX	solvent							
MOISTURE CONTENT								
FAT %								
UNITS	pg							
2,3,7,8-Cl4DD	0.179	ND						
1,2,3,7,8-Cl5DD	1.02	I						
1,2,3,4,7,8-Cl6DD	0.380	ND						
1,2,3,6,7,8-Cl6DD	0.767	I						
1,2,3,7,8,9-Cl6DD	0.566	I						
1,2,3,4,6,7,8-Cl7DD	2.19	I						
1,2,3,4,6,7,8,9-Cl8DD	1.738	I						
2,3,7,8-Cl4DF	0.167	ND						
1,2,3,7,8-Cl5DF	0.620							
2,3,4,7,8-Cl5DF	0.468	I						
1,2,3,4,7,8-Cl6DF	1.14	I						
1,2,3,6,7,8-Cl6DF	1.02							
1,2,3,7,8,9-Cl6DF	1.36	I						
2,3,4,6,7,8-Cl6DF	0.426							
1,2,3,4,6,7,8-Cl7DF	1.44							
1,2,3,4,7,8,9-Cl7DF	3.31	I						
1,2,3,4,6,7,8,9-Cl8DF	8.46							
PCB-77								
PCB-81								
PCB-126								
PCB-169								
Cl4DD	0.00							
Cl5DD	0.00							
Cl6DD	0.00							
Cl7DD	6.89							
Cl4DF	0.00							
Cl5DF	0.00							
Cl6DF	0.00							
Cl7DF	2.46							
13C-2,3,7,8-Cl4DD %REC	87.8							
13C-1,2,3,7,8-Cl5DD %REC	89.1							
13C-1,2,3,4,7,8-Cl6DD %REC	85.9							
13C-1,2,3,6,7,8-Cl6DD %REC	74.8							
13C-1,2,3,4,6,7,8-Cl7DD %REC	94.5							
13C-1,2,3,4,6,7,8,9-Cl8DD %REC	95.1							
13C-2,3,7,8-Cl4DF %REC	75.4							
13C-1,2,3,7,8-Cl5DF %REC	76.8							
13C-2,3,4,7,8-Cl5DF %REC	81.3							
13C-1,2,3,4,7,8-Cl6DF %REC	75.5							
13C-1,2,3,6,7,8-Cl6DF %REC	82.7							
13C-1,2,3,7,8,9-Cl6DF %REC	81.3							
13C-2,3,4,6,7,8-Cl6DF %REC	80.6							
13C-1,2,3,4,6,7,8-Cl7DF %REC	81.1							
13C-1,2,3,4,7,8,9-Cl7DF %REC	96.1							
13C-PCB-77 %REC								
13C-PCB-126 %REC								
13C-PCB-169 %REC								
i-TEQ(H) PCB-TEQ(4 PCBs)	1.998							

NA=Not determined N/A=Not Applicable ND=Less than MDL D=Less than QL I=Interference B=Upper Limit

PATH

CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY

Tel. 510-540-3003 Fax# 510-540-2305

DIOXIN/FURAN REPORT

collector's name: Greg Neal
collector's phone: 714-484-5455 Report Date: 3/23/2012
sampling site: Western Environment

ECL: AV01845, AV01845-dup, AV01846, AV01847, AV01848

HML-NUMBER :	AV01845		AV01845-dup		AV01846		AV01847		AV01848			
COLLECTOR'S NUMBER	WEI-Offsite-1		WEI-Offsite-1		WEI-Offsite-2		WEI-Offsite-3		WEI-Offsite-4			
MATRIX	soil		soil		soil		soil		soil			
MOISTURE CONTENT												
WEIGHT	2.00		2.00		2.00		2.00		2.00			
UNITS	Ratio		Ratio		Ratio		Ratio		Rato			
2,3,7,8-Cl4DD	0.90	ND	1.12	ND	1.57	ND	1.57	B, I	0.56	ND		
1,2,3,7,8-Cl5DD	1.44	B, I	0.354	ND	0.393	ND	0.250	B, I	1.03	B		
1,2,3,4,7,8-Cl6DD	0.68	ND	0.42	ND	0.95	ND	3.07	D, I	2.50	B, I		
1,2,3,6,7,8-Cl6DD	3.39	D	2.23	B, I	0.70	B, I	1.90	B, I	1.57	B, I		
1,2,3,7,8,9-Cl6DD	3.59	D	2.31	B, I	0.918	ND	3.87	D, I	0.32	B, I		
1,2,3,4,6,7,8-Cl7DD	0.733	B, I	0.183	B, I	10.2	I	1.56	B, I	0.940	B, I		
1,2,3,4,6,7,8,9-Cl8DD	5.82	D	2.56	B, I	156		4.33	D, I	11.8	I		
2,3,7,8-Cl4DF	4.78	D, I	1.20	ND	1.44	B, I	4.19	D, I	0.72	ND		
1,2,3,7,8-Cl5DF	0.584	B, I	1.322	B	1.87	B, I	2.06	B, I	1.01	B, I		
2,3,4,7,8-Cl5DF	0.506	B, I	0.342	B, I	1.72	B	1.11	B	1.41	B, I		
1,2,3,4,7,8-Cl6DF	0.245	ND	1.24	B	1.18	B, I	1.66	B, I	0.245	B, I		
1,2,3,6,7,8-Cl6DF	1.23	B, I	1.68	B	0.930	B, I	0.235	ND	0.606	B, I		
1,2,3,7,8,9-Cl6DF	3.02	D	0.82	B, I	0.279	ND	0.206	B	0.367	B, I		
2,3,4,6,7,8-Cl6DF	3.82	D	2.27	B, I	1.17	B, I	1.41	B, I	0.28	B, I		
1,2,3,4,6,7,8-Cl7DF	1.34	B	1.16	B	2.36	B, I	0.565	B, I	0.54	B, I		
1,2,3,4,7,8,9-Cl7DF	0.670	B	0.103	ND	0.133	B, I	0.273	B, I	0.079	B, I		
1,2,3,4,6,7,8,9-Cl8DF	0.706	B	0.373	B, I	1.66	B, I	0.140	ND	0.099	B, I		
PCB-77												
PCB-81												
PCB-126												
PCB-169												
Cl4DD												
Cl5DD												
Cl6DD												
Cl7DD												
Cl4DF												
Cl5DF												
Cl6DF												
Cl7DF												
13C-2,3,7,8-Cl4DD %REC												
13C-1,2,3,7,8-Cl5DD %REC												
13C-1,2,3,4,7,8-Cl6DD %REC												
13C-1,2,3,6,7,8-Cl6DD %REC												
13C-1,2,3,4,6,7,8-Cl7DD %REC												
13C-1,2,3,4,6,7,8,9-Cl8DD %REC												
13C-2,3,7,8-Cl4DF %REC												
13C-1,2,3,7,8-Cl5DF %REC												
13C-2,3,4,7,8-Cl5DF %REC												
13C-1,2,3,4,7,8-Cl6DF %REC												
13C-1,2,3,6,7,8-Cl6DF %REC												
13C-1,2,3,7,8,9-Cl6DF %REC												
13C-2,3,4,6,7,8-Cl6DF %REC												
13C-1,2,3,4,6,7,8-Cl7DF %REC												
13C-1,2,3,4,7,8,9-Cl7DF %REC												
13C-PCB-77 %REC												
13C-PCB-126 %REC												
13C-PCB-169 %REC												
i-TEQ(H) PCB-TEQ(4 PCBs)												

NA=Not determined N/A=Not Applicable ND=Less than MDL D=Less than QL I=Interference B=Upper Limit

PATH

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

California Environmental Protection Agency
Department of Toxic Substances Control
Environmental Chemistry Laboratory
1449 W. Temple St. Los Angeles, CA 90026
Telephone: (213) -977-7928

LABORATORY REPORT -- CHROMIUM (VI)

Authorization No. : 11SC0105
ECL No.: AV01839-AV01842

Sampling Location: Western Environmental - Mecca
Address: 62-150 Gene Welmas Avenue

Requestor's Name: Greg Neal
Address: 5796 Corporate Avenue Cypress, CS 90630

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Sample Analysis Request	6
Sample Receipt and Photos	7-8

The results listed within this report pertain only to the samples tested in the laboratory. These results have been reviewed for technical correctness and completeness. This report was reviewed and approved for release.

Report Reviewed by:
Mario Vinoya, Staff Chemist
Date 3/6/12

Report Approved by:
Mui Sam, Ph.D., Section Chief
Date 3/8/2012

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

California Environmental Protection Agency
Department of Toxic Substances Control
Environmental Chemistry Laboratory
1449 W. Temple St. Los Angeles, CA 90026
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LABORATORY REPORT -- CHROMIUM (VI)

Authorization No. : 11SC0105 **Priority:** 2

ECL No.: AV01839-AV01842 **Page:** 2 of 8

1. Sampling Location: Western Environmental - Mecca
   Address: 62-150 Gene Welmas Avenue Mecca, Ca

2. Requestor' Name: Greg Neal
   Address: 5796 Corporate Avenue Cypress, Ca 90630

3. Sample (s) History:
   Date Collected: 2/7/2012
   Date Received: 2/8/2012
   Date Extracted/Digested: 2/20/2012 Method: EPA Method 3060A
   Date Analyzed: 2/21/2012 Method: EPA Method 7199A

   Date data package was completed: 3/1/2012

Case narrative:

1. Initial calibration and continuing calibration criteria were met? ☑ Yes ☐ No
2. QC parameters were within control limits? ☑ Yes ☐ No
3. Sample holding time was met? ☑ Yes ☐ No

Comments:

If any of the above answer is "NO" please explain in details.

Matrix spike sample were not performed for this batch of samples due to lab's error, but recoveries and %RPD for LCS/LCSD were within control limits. Sample replicate analysis was not reported because Chromium (VI) was not detected in sample. The retention time for Cr(VI) complex shifted slightly in LCS, LCSD and AV01839PS, possibly due to interferences from sample matrix. Redigestion of the samples and multiple readings of the samples produced the same shift in retention time.

Sample Prepared by: Hae Lee Date 3/6/12
Hae Lee, Chemist

Sample Analyzed by: Hae Lee Date 3/6/12
Hae Lee, Chemist

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

California Environmental Protection Agency
Department of Toxic Substances Control
Environmental Chemistry Laboratory
1449 W. Temple St. Los Angeles, CA 90026
Telephone: (213) -977-7928

LABORATORY REPORT -- CHROMIUM (VI)

Authorization No. : 11SC0105 **Priority:** 2
ECL No.: AV01839-AV01842 **Page:** 3 of 8

Reference Method: EPA SW-846; EPA Method 7199A
Analytical Procedure: Samples are digested in 0.5 M NaOH/0.28 M Na_2CO_3, filtered, and brought to pH 9±5. Digests are made to final volume with deionized water. Analysis of the digests is performed.

ECL NO.	AV01839	AV01840	AV01841	AV01842		Method Blank	**Reporting Limit (not corrected for dilution)**
Requestor's No	WEI-Offsite-1	WEI-Offsite-2	WEI-Offsite-3	WEI-Offsite-4			
Digestion Date	2/20/2012	2/20/2012	2/20/2012	2/20/2012		2/20/2012	
Analysis Date	2/21/2012	2/21/2012	2/21/2012	2/21/2012		2/21/2012	
Dilution Factor	77.64	76.45	77.46	76.51		77.34	
Matrix Type	Soil	Soil	Soil	soil		Aqueous	
Units	µg/L	µg/L	µg/L	µg/L		µg/L	µg/L
Chromium (VI) - Cr (VI)	ND	ND	ND	ND		ND	1.00

Quantitation Limit = Reporting Limit * Dilution Factor

Qualifiers:

ND	**Not detected < Quantitation Limit**
J	Estimated value
B	Analyte found in method blank (MB)
B1	Analyte found in MB. Analyte conc. in the sample is greater than 10X the conc. found in MB
H	Holding Time exceeded

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

California Environmental Protection Agency
Department of Toxic Substances Control
Environmental Chemistry Laboratory
1449 W. Temple St. Los Angeles, CA 90026
Telephone: (213) -977-7928

LABORATORY QUALITY CONTROL REPORT -- CHROMIUM (VI)

Authorization No. : 11SC0105
ECL No.: AV01839-AV01842

Priority: 2
Page: 4 of 8

Sample Preparation			
Digestion Date	2/20/2012	Matrix Type	Soil
Analysis Date	2/21/2012		

Quality Control Parameter	Laboratory Control Sample			Laboratory Control Sample Duplicate			Control Limits	
	True Value	Found	Recovery	Found	Recovery	LCS/LCSD RPD	Recovery	RPD
Units	µg/L	µg/L	%	µg/L	%	%	%	%
Chromium (VI) - Cr (VI)	1000	1005	100.5%	1018	101.8%	**1.25**	80-120	20

Quality Control Parameter	Post Digestion Spike				
	ECL No. AV01839				Recovery Control Limits
	Sample Unspiked	Spike Added	Amount Recovered	Recovery	
Units	µg/L	µg/L	µg/L	%	%
Chromium (VI) - Cr (VI)	ND	1500	1465	97.70%	80-120

Note:

ND = Not Detected < Quantitation Limit

Quantitation Limit = Reporting Limit x Dilution Factor

M	MS recovery below control limits
M2	MS recovery above control limits
R	% RPD exceeded control limit

Comments:

State of California
California Environmental Protection

Department of Toxic Substances Control
Environmental Chemistry Laboratory

SUPPLEMENTAL ☐
(Check if Supplemental Requested)

AUTHORIZATION REQUEST FORM (ARF)

PART A : (By Requestor - PLEASE PRINT)

Unit chief's signature required: (for Rush or TAT Level = 1)

Turnaround Time (TAT): *Rush ☐ *Level 1 ☐ 2 ☑ 3 ☐

Requestor's Name	Greg Neal	Email	gneal	@dtsc.ca.gov	Phone (714) 484-5455
Region	04--Cypress	Unit	BERP-Engineering & Geology		Fax (714) 484-5411
Back-up Requestor	Alfredo Zanoria				Phone (714) 484-5422
Site Name	Western Environmental Inc - Mecca				AREA CODE

PART B: Analytical Requests (By Requestor) (Lab uses default methods listed below. Please specify all other requests.)

Inorganic Analysis	Number of Samples/Type Solid	Liquid	Water	Other
% Dry Solids (ECL730-S)				
Acidity (305-1)				
Alkalinity (310-1)				
Anions by IC (9056)				
Chromium VI(Cr^{6+}) by Colorimetric (7196A)				
Chromium VI(Cr^{6+}) in Water by IC (7199)	4			
Cyanides for Wastes,Leachates (9010B)	4			
Hardness (130-2)				
Mercury(Hg) in (Semi)Solid Waste (7471A)				
Mercury(Hg) in Liquid Waste (7470A)				
Metals Screening by XRF				
Metals Scan (6010B, for As,Ba,Cu,Pb, etc)				
Metals Scan (for Drinking water, 6020A)	4			
OrganoLead in Waste (ECL938-M)				
Particle Size (ECL740-S)				
Perchlorate for Soil,Sludge (ECL955-M)				
Perchlorate for Water (314-0)				
pH (9040B, 9045C)	4			
Total Dissolved Solids (160-1)				
WET(ECL910-S) ☐ Only if necessary ☐ Do it regardless				
(others, type in) Metals STLC (if Necessary)	4			

To ATL

Organic Analysis		Number of Samples/Type Solid	Liquid	Water	Other
GRO (Gasoline, 8015B)					
DRO(Diesel) only (ECL816-M)					
Motor Oil only (ECL816-M)					
DRO(Diesel) & Motor Oil (ECL816-M)					
EthyleneGlycol (ECL772-M)					
PBDEs (ECL750-M)					
PCBs (8082)		4			
Pesticides - Chlorinated (8081A)		4			
Pesticides - Organophosphate (8141A)					
1,4-Dioxane (ECL830-S)					
GC/MS	Semivolatiles (8270C)				
	Volatiles (8260B)				
HPLC	Carbonyl Compounds (8315A)				
	Explosives (8330)				
	PAHs (8310)				
Dioxins/Furans by HRGC/HRMS (ECL880-M)					
Flash Point (1020A)					
n-Hexane Extractables/TPH (1664)					
TXO-Total Halogens in Oil (ECL792-S)					
(others, type in)					
(others, type in)					

TCLP Analysis**			Number of Samples/Type
Metals	☑ Only if necessary	☐ Do it regardless	4
Mercury	☐ Only if necessary	☐ Do it regardless	
Volatiles	☐ Only if necessary	☐ Do it regardless	
Semivolatiles	☐ Only if necessary	☐ Do it regardless	
(others, type in)			

Other Analysis
Fish Bioassay (Title 22)
Congener PCBs (ECL-CG-PCB)
Congener PBDEs (ECL-CG-PBDE)
(others,type in)
(others, type in)

Analysis Objective: Site Characterization

Special Instructions or Comments (For Example: Detection Limit, Sample Preparation, Extraction..., etc.):

Lowest achieveable DLs. Dioxins/furans by EPA 8290 if DL is lower than ECL method. Cyanide by 9010 if DL is lower than 9014.

Expected Sample Arrival Date: 02/08/12 (mm/dd/yy)

PART C : (By SMO - ECL)

Authorization Number (AN): **11SC0105**

ARF's Revision No. Initials: Date:

Lab to Receive Sample(s)

Southern California Lab
1449 W. Temple St. Rm. 105
Los Angeles, CA 90026
Barbara Bush (213) 482-9744

ARF's Revision No. Initials: Date:

Sample Management Officer (SMO)

☐ Check box if cancelled
Initials: Date:

Today's Date 02/01/12 (mm/dd/yy) Expiration Date 02/18/12 (mm/dd/yy)

If Sample(s) Directed to Contract Lab, Please Specify:

Reason:

ECL Personnel Confirmed:

ECL Contract Lab Manager Notification (for Rush or TAT Level =1):

Turnaround Time (TAT): * Rush for public health and safety or emergency, *Level 1 = 15 days, 2 = 30 days, 3 = 45 days.
**TCLP : If time permits and sample matrix type is appropriate, lab may analyze or screen the sample(s) first to determine if TCLP is needed.
Reference: ECL User's Manual.

State of California
California Environmental Protection Agency

Department of Toxic Substances Control
Environmental Chemistry Laboratory

6

ENVIRONMENTAL CHEMISTRY LABORATORY SAMPLE ANALYSIS REQUEST	1. Authorization Number 11SC0105, 11AT0105, 11EC0105	ECL No.: AV01839 To AV01842	2. Page 1 of 1

3. Requestor: (to Receive Results) a. Name: Greg Neal
b. Address: 5796 Corporate Avenue (street number)
Cypress, Ca 90630 (city, state, zip)
c. Phone: (714) 484-5455 (area code first) d. Fax: (714) 484-5411 (area code first)
e. Email: gneal @dtsc.ca.gov

4. Project Name (if applicable): Western Environmental - Mecca

5. TAT Level: 2

6. Sampling Information: a. Date/Time Sampled: 02/07/12 (mm/dd/yy) (#:## AM/PM)
b. Location: EPA ID No.
Site: Western Environmental - Mecca
Address: 62-150 Gene Welmas Avenue (street number)
Mecca, Ca (city, state, zip)
GPS-Lat: 33.595781 GPS-Long: -116.086148
GPS-Alt: GPS-Depth:

7. Codes (select from drop down list or fill in if applicable)
a. Unit E&ERP-Enforcement(Chatsworth)
b. INDEX 6310
c. PCA 36195
d. MPC 962
e. SITE 551115-48
f. County 33--Riverside

8. Samples:

	a. ID	b. Collector's No.	c. ECL No.	d. Matrix	e. Container Size	f. Number of containers	g. Preservative / Field Information
1	WEI-Offsite-1		AV01839	Soil	2-4oz glass, 3-8oz glass	5	Ice
2	WEI-Offsite-2		AV01840	Soil	2-4oz glass, 3-8oz glass	5	Ice
3	WEI-Offsite-3		AV01841	Soil	2-4oz glass, 3-8oz glass	5	Ice
4	WEI-Offsite-4		AV01842	Soil	2-4oz glass, 3-8oz glass	5	Ice
5							
6							
7							
8							
9							

9. Analysis Requested: Enter sample IDs and sample ID ranges separated by commas. For example, 1-3, 5-7, 9

a. Inorganic Analysis	Sample(s) ID	b. Organic Analysis	Sample(s) ID
Cyanides for Wastes, Leachates(9010B)	1, 2, 3, 4	Pesticides - Chlorinated (8081B or 8081A)	1, 2, 3, 4
Mercury in (Semi)Solid Waste (7471A)	1, 2, 3, 4	Pesticides - Organophosphate (8141B or 8141A)	1, 2, 3, 4
Metals Scan (ICP-AES, 6010B or 6010C)	1, 2, 3, 4	PCBs (8082A or 8082)	1, 2, 3, 4
pH for Solid (9045C)	1, 2, 3, 4	HPLC--PAHs (8310)	1, 2, 3, 4
Chromium VI by Colorimetric(7196A)	1, 2, 3, 4	Dioxins/Furans by HRGC/HRMS(ECL880-M)	1, 2, 3, 4
Other Metals:			

c. TCLP Analysis			d. Other Analysis	
Metals	(only if necessary)	1, 2, 3, 4	Metals STLC (only if necessary)	1, 2, 3, 4
Mercury	(only if necessary)	1, 2, 3, 4		

e. Comments for Multiphasic Samples/Analysis Priority:

10. Analysis Objective: Other (contact lab first). Please specify: Human Health Risk

11. Detection Limit Requirements: (Check ECL User's Manual to assure default DL is sufficient.)
Lowest Achievable

12. Supplemental Requests: Enter sample IDs as described in Item 9

Desired Analysis	Sample(s) ID

Initials
Date

13. ECL Lab Remarks:
MS, pH, WET, TCLP, PCB, OCI
5/1 5-8oz jars

FIELD

ECL

LAB

14. Chain of Custody:

	Name	Title	Signature	Inclusive Dates of Custody
a.	Wendy Arano	Engineering Geologist	Wendy Arano	2/7/2012 to 2/8/2012
b.	Greg Neal	Engineering Geologist	Greg Neal	2/8/12 to 2/8/12
c.	Barbara Bush	Lab Tech	Barbara Bush	2/8/12 to
d.				to
e.				to
f.				to
g				to

COC

ENVIRONMENTAL CHEMISTRY LABORATORY - LOS ANGELES
1449 W. TEMPLE STREET
LOS ANGELES, CA 90026
(213) 482-9744 OR (213) 580-5797

REVISION NO. 1, AUG 2002

SAMPLE RECEIPT

AUTHORIZATION NO. 11SC0105 ERP

DATE RECEIVED 2/8/12

HML SAMPLE NO(s). AV01839-42

RECORDED BY B Bush

CUSTODY SEALS [ ] PRESENT [X] ABSENT [ ] BROKEN

Circle All Partial (All) Partial On _____ Lab No.

SAMPLE CONDITION

1 [X] Acceptable
2 [ ] Sample container received damaged
3 [ ] Sample received in improper container
4 [ ] Insufficient sample volume/weight for analysis
5 [ ] Sample container not labeled or illegibly labeled
6 [ ] Discrepancies between the ARF and the SAR
7 [ ] Sample Analysis Request form not received with the sample(s)
8 [ ] Sample Analysis Request form not completed
9 [ ] Chain of custody not complete
10 [ ] Sample received without proper preservation
11 [ ] No information on sample preservation
12 [ ] Other (Specify) _____

CORRECTIVE ACTION TAKEN

[ ] None
[ ] Sample analysis on hold for more info
[ ] Inform sample collector of problem
[ ] Sample analyzed as received
[ ] Other (Specify)

_____

_____

To Project Managers - Be AWARE!

[ ] Samples were not deliver to LAB promptly after collection. Sample holding times may not be met.
[ ] Samples were not properly packed causing breakage and leakage.
[ ] LAB was not informed of your special requests or special sample container (e.g., EnCore samplers)

In order for the Lab to handle your analyses efficiently, please avoid these problems from happening again

CONTACTS MADE: FAXES, PHONE CALLS, E-MAILS, ETC.

	Date		Initial
1			
2			
3			
4			

AV01840
AV01840
AV01840
AV01840

AV01839
AV01839
AV01839
AV01839

AV01842
AV01842
AV01842
AV01842

AV01841
AV01841
AV01841
AV01841

California Department of Toxic Substances Control
Environmental Chemistry Laboratory
700 Heinz Avenue Suite 100, Berkeley, CA 94710, Ph (510) 540-3003
Laboratory Report For...Organophosphorus Pesticides

For ECL No.s AV01845 to AV01848

Auth. No. 11EC0105

Requestor: Greg Neal
Address: 5796 Corporate Avenue, Cypress, Ca 90630

Date Collected: 2/7/2012
Date Received by Lab: 2/9/2012
Date Extracted: 2/17/2012
Data Analyzed: 2/28/2012
Extraction Method: EPA 3546
Analysis Method: EPA 8141B

Sampling Location: WESTERN ENVIRONMENTAL - Mecca, 62-150 Gene Welmas Avenue, Mecca, CA

Extraction Holding Time Met ?: YES
Analysis Holding Time Met ?: YES

Extraction Methods: EPA 3510C- For aqueous sample; Separatory funnel extraction with MeCl2. Solvent exchange to hexane.
EPA 3550B - For solid sample; Sonication extraction with hexane/acetone(1:1). Solvent exchange to hexane.
EPA 3580A - For oils & organic liquid sample; Solvent dilution with hexane.
Cleanup Method: EPA 3546 -- For solid sample; Microwave extraction with methylene chloride.
Analytical Method: EPA 8141A - Analysis by DB-210 capillary column PFPD & confirmation by DB-5 capillary column TSD

ECL Number: ---->		AV01845	AV01846	AV01847	AV01848		Method	
Collector's Sample #		WEI-Offsite-1	WEI-Offsite-2	WEI-Offsite-3	WEI-Offsite-4		blank	QL
Sample Matrix:		Soil	Soil	Soil	Soil		Soil	Soil
Units:		mg/Kg	mg/Kg	mg/Kg	mg/Kg		mg/Kg	mg/Kg
Compound	CAS #							
DICHLORVOS	62-73-7	ND	ND	ND	ND		ND	0.0500
DEMETON-O	7786-34-7	ND	ND	ND	ND		ND	0.0700
MEVINPHOS	8065-48-3	ND	ND	ND	ND		ND	0.100
PHORATE (THIMET)	298-02-2	ND	ND	ND	ND		ND	0.100
ETHOPROP(MOCAP)	13194-48-4	ND	ND	ND	ND		ND	0.0500
DIAZINON	333-41-5	ND	ND	ND	ND		ND	0.0500
DISULFOTON	298-04-4	ND	ND	ND	ND		ND	0.0500
DEMETON-S	8065-48-3	ND	ND	ND	ND		ND	0.0300
RONNEL	299-84-3	ND	ND	ND	ND		ND	0.0500
CHLORPYRIFOS	2921-88-2	ND	ND	ND	ND		ND	0.0500
FENTHION	55-38-9	ND	ND	ND	ND		ND	0.0500
PARATHION METHYL	298-00-0	ND	ND	ND	ND		ND	0.0500
MALATHION	121-75-5	ND	ND	ND	ND		ND	0.0500
PARATHION ETHYL	56-38-2	ND	ND	ND	ND		ND	0.0500
TRITHION	786-19-6	ND	ND	ND	ND		ND	0.0500
ETHION	563-12-2	ND	ND	ND	ND		ND	0.0500
LEPTOPHOS	21609-90-5	ND	ND	ND	ND		ND	0.100
EPN	2104-64-5	ND	ND	ND	ND		ND	0.0500
AZINPHOS METHYL	86-50-0	ND	ND	ND	ND		ND	0.100
AZINPHOS ETHYL	2642-71-9	ND	ND	ND	ND		ND	0.100
COUMAPHOS	56-72-4	ND	ND	ND	ND		ND	0.100
No. of NT peaks		6	5	7	7		5	
Total NT peak conc. calc. as Malathion		0.342	0.178	0.226	0.182		0.201	

Surrogate Standard Recovery: Unit: Percent

FONOFOS(SURROGATE)	944-22-9	92.4	94.2	94.6	84.4		98.2	

Note: QL= Quantitation Limit = Lowest calibration standard x dilution factor
ND= Not detected or detected but below half QL D = Detected but below QL NA = Not Analyzed NT=Nontarget peak

Comments:

Analyzed by: Joe Acedillo — Signature: J. E. Acedillo — Date: 3/12/12

Reviewed by: Carol Wortham — Signature: Carol Wortham — Date: 3/13/2012

Approved by: John Quinn — Signature: John Quinn — Date: 3/13/2012

California Department of Toxic Substances Control
Environmental Chemistry Laboratory
700 Heinz Avenue Suite 100, Berkeley, CA 94710
Phone: (510) 540-3003

For ECL No.s AV01845
to: AV01848

Auth No. 11EC0105

Laboratory Quality Control Report
Matrix Spike and Matrix Spike Duplicate

Requestor Address: Greg Neal
5796 Corporate Avenue
Cypress, Ca 90630

Sampling Location: WESTERN ENVIRONMENTAL - Mecca
62-150 Gene Welmas Avenue
Mecca, CA

Analysis for: Organophosphorus Pesticides

Matrix Spike performed on: AV01845

Date Collected: 2/7/2012
Date Received by Lab: 2/9/2012
Date Extracted: 2/17/2012
Date Analyzed: 2/28/2012
Extraction Method: EPA 3546
Analysis Method: EPA 8141B

Matrix : Soil	Spike Added mg/Kg	Sample* Concentration mg/Kg	MS** Concentration mg/Kg	MSD** Concentration mg/Kg	QL mg/Kg	MS Recovery %	MSD Recovery %	Mean Recovery %	RPD %	Control Limits Mean Recovery Min. %	Control Limits Mean Recovery Max. %	Control Limits RPD Max. %
FONOFOS(SURROGATE)	0.500	NR	0.488	0.483	0.0500	97.6	96.6	97.1	1.03	---	---	---
DICHLORVOS	0.500	ND	0.439	0.437	0.0500	87.8	87.4	87.6	0.457	60.6	127	16.1
PHORATE (THIMET)	1.00	ND	1.02	1.00	0.100	102	100	101	1.98	67.5	141	36.5
DISULFOTON	0.500	ND	0.411	0.412	0.0500	82.2	82.4	82.3	0.243	43.3	193	33.7
RONNEL	0.500	ND	0.440	0.431	0.0500	88.0	86.2	87.1	2.07	62.0	114	21.1
CHLORPYRIFOS	0.500	ND	0.420	0.417	0.0500	84.0	83.4	83.7	0.717	64.0	130	27.7
MALATHION	0.500	ND	0.491	0.492	0.0500	98.2	98.4	98.3	0.203	51.2	112	25.9
PARATHION ETHYL	0.500	ND	0.425	0.421	0.0500	85.0	84.2	84.6	0.946	51.6	165	25.6
TRITHION	0.500	ND	0.450	0.430	0.0500	90.0	86.0	88.0	4.55	45.8	120	23.3
ETHION	0.500	ND	0.480	0.464	0.0500	96.0	92.8	94.4	3.39	45.6	154	36.0
LEPTOPHOS	1.00	ND	0.917	0.902	0.100	91.7	90.2	91.0	1.65	38.2	97.3	35.5
AZINPHOS METHYL	1.00	ND	0.852	0.878	0.100	85.2	87.8	86.5	3.01	32.9	141	29.4
COUMAPHOS	1.00	ND	0.913	0.922	0.100	91.3	92.2	91.8	0.981	---	---	---

Comments:

Note:

QL = Quantitation Limit = Lowest calibration standard x dilution factor
ND = Not detected or detected but below half QL
D = Detected but below QL
NR = Not Recovered
J = Estimated value
MS = Matrix Spike; MSD = Matrix Spike Duplicate
* Concentration in the unspiked sample (background)
** MS concentration or MSD concentration = spike - background
MS or MSD Recovery = (MS or MSD concentration)/(spike added) x 100%
RPD = absolute value of (MS concentration - MSD concentration)/[(MS concentration + MSD concentration)/2] x 100%
OL The precision exceeds the upper RPD control Limit
OL Matrix spike recovery is outside of the mean recovery control limits

Analyzed by:	Joe Acedillo	J. E. Acedillo (Signature)	3/12/12 (Date)
Reviewed by:	Carol Wortham	Carol Wortham (Signature)	3/13/2012 (Date)
Approved by:	John Quinn	John Quinn (Signature)	3/13/2012 (Date)

California Department of Toxic Substances Control
Environmental Chemistry Laboratory
700 Heinz Avenue Suite 100, Berkeley, CA 94710
Phone: (510) 540-3003

For ECL No.s AV01845 to: AV01848

Auth No. 11EC0105

Laboratory Quality Control Report
Lab Control Sample Recovery

Requestor Address: Greg Neal
5796 Corporate Avenue
Cypress, Ca 90630

Sampling Location: WESTERN ENVIRONMENTAL - Mecca
62-150 Gene Welmas Avenue
Mecca, CA

Date Collected: 2/7/2012
Date Received by Lab: 2/9/2012
Date Extracted: 2/17/2012
Date Analyzed: 2/28/2012
Extraction Method: EPA 3546
Analysis Method: EPA 8141B

Analysis for: Organophosphorus Pesticides

Matrix : Sand	Spike Added mg/Kg	Method Blank Result mg/Kg	Spike Recovered ** mg/Kg	QL mg/Kg	Spike Recovery %	Recovery Control Limit % Min	Max
FONOFOS(SURROGATE)	0.500	NR	0.502	0.0500	100	---	---
DICHLORVOS	0.500	ND	0.466	0.0500	93.2	76.2	141
PHORATE (THIMET)	1.00	ND	1.06	0.100	106	76.6	131
DISULFOTON	0.500	ND	0.419	0.0500	83.8	46.8	216
RONNEL	0.500	ND	0.452	0.0500	90.4	71.6	121
CHLORPYRIFOS	0.500	ND	0.443	0.0500	88.6	70.3	123
MALATHION	0.500	ND	0.537	0.0500	107	56.1	138
PARATHION ETHYL	0.500	ND	0.454	0.0500	90.8	69.2	118
TRITHION	0.500	ND	0.489	0.0500	97.8	47.6	136
ETHION	0.500	ND	0.493	0.0500	98.6	45.3	120
LEPTOPHOS	1.00	ND	0.928	0.100	98.2	70.4	101
AZINPHOS METHYL	1.00	ND	0.891	0.100	89.1	82.3	118
COUMAPHOS	1.00	ND	0.955	0.100	95.5	---	---

Comments:

Note:

QL = Quantitation Limit = Lowest calibration standard x dilution factor
ND = Not detected or detected but below half QL
D = Detected but below QL
NR = Not Recovered
J = Estimated value
** Method blank result is not used to correct the method standard spike recovery
@ Method standard spike recovery is outside of the recovery control limits

Analyzed by: Joe Acedillo — Signature — 3/12/12 Date
Reviewed by: Carol Wortham — Signature — 3/13/2012 Date
Approved by: John Quinn — Signature — 3/13/2012 Date

State of California
California Environmental Protection

Department of Toxic Substances Control
Environmental Chemistry Laboratory

SUPPLEMENTAL ☐
(Check if Supplemental Requested)

AUTHORIZATION REQUEST FORM (ARF)

PART A : (By Requestor - PLEASE PRINT)

Unit chief's signature required: (for Rush or TAT Level = 1)

Turnaround Time (TAT) : *Rush ☐ *Level 1 ☐ 2 ☑ 3 ☐

Requestor's Name	Greg Neal	Email	gneal @dtsc.ca.gov	Phone (714) 484-5455
Region	04--Cypress	Unit	BERP-Engineering & Geology	Fax (714) 484-5411
Back-up Requestor	Alfredo Zanoria			Phone (714) 484-5422
Site Name	Western Environmental Inc - Mecca			AREA CODE

PART B: Analytical Requests (By Requestor) (Lab uses default methods listed below. Please specify all other requests.)

Inorganic Analysis	Number of Samples/Type Solid	Liquid	Water	Other
% Dry Solids (ECL730-S)				
Acidity (305-1)				
Alkalinity (310-1)				
Anions by IC (9056)				
Chromium VI(Cr^{6+}) by Colorimetric (7196A)				
Chromium VI(Cr^{6+}) in Water by IC (7199)				
Cyanides for Wastes,Leachates (9010B)	4			
Hardness (130-2)				
Mercury(Hg) in (Semi)Solid Waste (7471A)	4			
Mercury(Hg) in Liquid Waste (7470A)				
Metals Screening by XRF				
Metals Scan (6010B, for As,Ba,Cu,Pb, etc)				
Metals Scan (for Drinking water, 6020A)				
OrganoLead in Waste (ECL938-M)				
Particle Size (ECL740-S)				
Perchlorate for Soil,Sludge (ECL955-M)				
Perchlorate for Water (314-0)				
pH (9040B, 9045C)				
Total Dissolved Solids (160-1)				
WET(ECL910-S) ☐ Only if necessary ☐ Do it regardless				
(others, type in)				

TO ATL

Organic Analysis	Number of Samples/Type Solid	Liquid	Water	Other
GRO (Gasoline, 8015B)				
DRO(Diesel) only (ECL816-M)				
Motor Oil only (ECL816-M)				
DRO(Diesel) & Motor Oil (ECL816-M)				
EthyleneGlycol (ECL772-M)				
PBDEs (ECL750-M)				
PCBs (8082)				
Pesticides - Chlorinated (8081A)				
Pesticides - Organophosphate (8141A)	4			
1,4-Dioxane (ECL830-S)				
GC/MS Semivolatiles (8270C)				
Volatiles (8260B)				
HPLC Carbonyl Compounds (8315A)				
Explosives (8330)				
PAHs (8310)	4			
Dioxins/Furans by HRGC/HRMS (ECL880-M)	4			
Flash Point (1020A)				
n-Hexane Extractables/TPH (1664)				
TXO-Total Halogens in Oil (ECL792-S)				
(others, type in)				
(others, type in)				

TCLP Analysis**			
Metals	☐ Only if necessary	☐ Do it regardless	
Mercury	☑ Only if necessary	☐ Do it regardless	4
Volatiles	☐ Only if necessary	☐ Do it regardless	
Semivolatiles	☐ Only if necessary	☐ Do it regardless	
(others, type in)			

Other Analysis
Fish Bioassay (Title 22)
Congener PCBs (ECL-CG-PCB)
Congener PBDEs (ECL-CG-PBDE)
(others,type in)
(others, type in)

Analysis Objective: Site Characterization

Special Instructions or Comments (For Example: Detection Limit, Sample Preparation, Extraction..., etc.):

Lowest achieveable DLs. Dioxins/furans by EPA 8290 if DL is lower than ECL method. Cyanide by 9010 if DL is lower than 9014.

Expected Sample Arrival Date: 02/08/12 (mm/dd/yy)

PART C : (By SMO - ECL)

Authorization Number (AN): **11EC0105**

ARF's Revision No. Initials: Date:

Lab to Receive Sample(s): Environmental Chemistry Lab, 700 Heinz Ave. Suite 150, Berkeley, CA 94710, Attn: Lloyd Williams (510) 540-2189

ARF's Revision No. Initials: Date:

Sample Management Officer (SMO): AW

☐ Check box if cancelled
Initials: Date:

Today's Date: 02/01/12 (mm/dd/yy)

Expiration Date: 02/18/12 (mm/dd/yy)

If Sample(s) Directed to Contract Lab, Please Specify:

Reason:

ECL Personnel Confirmed:

ECL Contract Lab Manager Notification (for Rush or TAT Level =1):

Turnaround Time (TAT): * Rush for public health and safety or emergency, *Level 1 = 15 days, 2 = 30 days, 3 = 45 days.
**TCLP : If time permits and sample matrix type is appropriate, lab may analyze or screen the sample(s) first to determine if TCLP is needed.
Reference: ECL User's Manual.

4-402 + 4-802 JARS

ECL01 (REV 04/09)

State of California
California Environmental Protection Agency

Department of Toxic Substances Control
Environmental Chemistry Laboratory

ENVIRONMENTAL CHEMISTRY LABORATORY SAMPLE ANALYSIS REQUEST

1. Authorization Number: 11SC0105, 11AT0105, 11EC0105

ECL No.: AV01845 To AV01848

2. Page 1 of 1

3. Requestor: (to Receive Results) a. Name: Greg Neal
b. Address: 5796 Corporate Avenue (street number)
Cypress, Ca 90630 (city, state, zip)
c. Phone: (714) 484-5455 (area code first) d. Fax: (714) 484-5411 (area code first)
e. Email: gneal @dtsc.ca.gov

4. Project Name (if applicable): Western Environmental - Mecca

5. TAT Level: 2

6. Sampling Information: a. Date/Time Sampled: 02/07/12 (mm/dd/yy) (#:## AM/PM)
b. Location: EPA ID No.
Site: Western Environmental - Mecca
Address: 62-150 Gene Welmas Avenue (street number)
Mecca, Ca (city, state, zip)
GPS-Lat: 33.595781 GPS-Long: -116.086148
GPS-Alt: GPS-Depth:

7. Codes (select from drop down list or fill in if applicable)
a. Unit: E&ERP-Enforcement(Chatsworth)
b. INDEX: 6310
c. PCA: 36195
d. MPC: 962
e. SITE: 551115-48
f. County: 33--Riverside

8. Samples:

a. ID	b. Collector's No.	c. ECL No.	d. Matrix	e. Container Size	f. Number of containers	g. Preservative / Field Information
1	WEI-Offsite-1	AV01845	Soil	2-4oz glass, 3-8oz glass	5	Ice
2	WEI-Offsite-2	AV01846	Soil	2-4oz glass, 3-8oz glass	5	Ice
3	WEI-Offsite-3	AV01847	Soil	2-4oz glass, 3-8oz glass	5	Ice
4	WEI-Offsite-4	AV01848	Soil	2-4oz glass, 3-8oz glass	5	Ice
5						
6						
7						
8						
9						

9. Analysis Requested: Enter sample IDs and sample ID ranges separated by commas. For example, 1-3, 5-7, 9

a. Inorganic Analysis	Sample(s) ID	b. Organic Analysis	Sample(s) ID
Cyanides for Wastes, Leachates(9010B)	1, 2, 3, 4	Pesticides - Chlorinated (8081B or 8081A)	1, 2, 3, 4
Mercury in (Semi)Solid Waste (7471A)	1, 2, 3, 4	Pesticides - Organophosphate (8141B or 8141A)	1, 2, 3, 4
Metals Scan (ICP-AES, 6010B or 6010C)	1, 2, 3, 4	PCBs (8082A or 8082)	1, 2, 3, 4
pH for Solid (9045C)	1, 2, 3, 4	HPLC--PAHs (8310)	1, 2, 3, 4
Chromium VI by Colorimetric(7196A)	1, 2, 3, 4	Dioxins/Furans by HRGC/HRMS(ECL880-M	1, 2, 3, 4
Other Metals:			

c. TCLP Analysis			d. Other Analysis	
Metals	(only if necessary)	1, 2, 3, 4	Metals STLC (only if necessary)	1, 2, 3, 4
Mercury	(only if necessary)	1, 2, 3, 4		

e. Comments for Multiphasic Samples/Analysis Priority:

10. Analysis Objective: Other (contact lab first). Please specify: Human Health Risk

11. Detection Limit Requirements: (Check ECL User's Manual to assure default DL is sufficient.)
Lowest Achievable

7473 for Hg not 7471

12. Supplemental Requests: Enter sample IDs as described in Item 9

Desired Analysis	Sample(s) ID

Initials
Date

13. ECL Lab Remarks:
MS, pH, WET, TCLP, PCB, OCI
5/1 2-8oz jars

ECL Berkeley Received 4-4oz jars + 4-8oz glass jars - LW

14. Chain of Custody:

	Name	Title	Signature	Inclusive Dates of Custody	
a.	Wendy Arano	Engineering Geologist	Wendy Arano	2/7/2012 to	2/8/2012
b.	Greg Neal	Engineering Geologist	Greg Neal	2/8/12 to	2/8/12
c.	Barbara Bush	Lab Tech	Barbara Bush	2/8/12 to	2/8/12
d.	Lloyd Williams	Lab Tech	Lloyd Williams	2/9/12 to	
e.				to	
f.				to	
g.				to	

FedEx Express **NEW** Package US Airbill

FedEx Tracking Number 8768 1923 1284

Recipient's Copy

1 From

Date

Sender's Name Phone

Company

Address Dept./Floor/Suite/Room

City State ZIP

2 Your Internal Billing Reference

3 To

Recipient's Name Phone

Company

Address Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City State ZIP

HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

8768 1923 1284

4 Express Package Service • To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs.

For packages over 150 lbs., use the new FedEx Express Freight US Airbill.

Next Business Day

- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [x] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- [ ] NEW FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging • Declared value limit $500.

- [x] FedEx Envelope*
- [ ] FedEx Pak*
- [ ] FedEx Box
- [ ] FedEx Tube
- [ ] Other

6 Special Handling and Delivery Signature Options

- [ ] SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.
- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*
- [x] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods? One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

- [ ] Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No. [ ]

- [x] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Total Packages	Total Weight	Total Declared Value†	Credit Card Auth.
1	1 lbs.	$ .00	

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

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Environmental Chemistry Laboratory (ECL)
700 Heinz Avenue, Suite#150, Berkeley, CA 94710

Sample Receipt Check List

Authorization Number: 11EC0105

ECL NO. AV01845 - AV01848 Collector's No. See SAR

Sample Check up Criteria	Acceptable Yes	No
1. Sample received in a cooler/ ice chest?	✓	
2. Cooler/ ice chest packed with ice or blue ice?	✓	
3. Cooler/ ice chest temperature within 4^0 C +/- 2^0 C?	✓	
4. Sample condition acceptable (intact and no damage)?	✓	
5. Custody seal present?		✓
6. If yes, custody seal intact?		
7. Sample received in proper containers? (see Table 1 and 2)	✓	
8. Aqueous and liquid samples in 40 mL VOA vials And no head space?		
9. Is there sufficient amount/ volume for all analysis? (see Table 1 and 2)	✓	
10. Received Sample Analysis Request (SAR) with the samples?	✓	
11. Is SAR complete?	✓	
12. Do the No. of samples in SAR and the No. of samples in ARF agree? And within 20% range? # of Samples split with ECL LA	✓	
13. Do sample labels agree with SAR?	✓	
14. Sample labels are legible and numbered?	✓	
15. Chain of Custody complete? Name printed, signed and dated ?	✓	
16. Samples properly preserved?	✓	
17 If received by FedEx or UPS, air bill/ packing slip signed, dated and made a copy for file?		

If No (not acceptable), Check for corrective action taken: Yes / No , if No why? _____

Sample login or analysis on hold due to missing information and inform the problem to the Collector
Explain problem _____ Date: _____
Problem corrected _____ Date: _____
OR
✓ Sample analyzed as received _____ Other comments (specify) _____

Received and completed by: Lloyd Williams

Signature: Lloyd Williams Date: 2/9/12

Supervisor's Approval (if any corrective action taken): _____ Date: _____

Department of Toxic Substances Control
Environmental Chemistry Laboratory
700 Heinz Avenue, Suite 150, Berkeley, CA 94710
Phone: (510) 540-3610 Fax: (510) 540-3615

ECL SAMPLE RECEIPT

Printed on: 2/9/2012

Authorization No: 11EC0105

Collector: Greg Neal

Date Collected: 2/7/2012

Date Lab Received: 2/9/2012

Sampling Site: WESTERN ENVIRONMENTAL -
62-150 Gene Welmas Avenue
Mecca, CA

ECL No.	Collector's No.	Sample Matrix	Container		Approximate Amount Rec' D	Custody Seals	Seal Location	Sample Condition	Action Taken
			Type	Size					
AV01845	WEI-OFFSITE-1	Soil	Glass	5(2-4oz glass, 3-8oz glass)	4oz-153.4;8oz-299.0	None		Acceptable	
AV01846	WEI-OFFSITE-2	Soil	Glass	5(2-4oz glass, 3-8oz glass)	4oz-139.2;8oz-279.4	None		Acceptable	
AV01847	WEI-OFFSITE-3	Soil	Glass	5(2-4oz glass, 3-8oz glass)	4oz-114.2;8oz-225.0	None		Acceptable	
AV01848	WEI-OFFSITE-4	Soil	Glass	5(2-4oz glass, 3-8oz glass)	4oz-153.9;8oz-305.7	None		Acceptable	

Comments:

4-4oz glass jars + 4-8oz glass jars

Sample(s) processed by: Lloyd Williams Signature: [signature] Date: 2/9/12

Supervisor's approval (if any action taken): Signature: _____ Date: _____

AV01845
Received Date: 2/9/2012
Requestor's Name: Greg Neal
Collector Sample ID: WEI-OFFSITE-1
Location Collected: 62-150 Gene Welmas Avenue
Mecca, CA
WEI MECCA SOIL
SAMPLE ID: WEI-offsite-1
DATE: [redacted] 2/7/2012
TIME: 0910
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK, JW
AV01846
Received Date: 2/9/2012
Requestor's Name: Greg Neal
Collector Sample ID: WEI-OFFSITE-2
Location Collected: 62-150 Gene Welmas Avenue
Mecca, CA
WEI MECCA SOIL
SAMPLE ID: WEI-offsite-2
DATE: [redacted] 2/7/2012
TIME: 10:21
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK, JW
AV01847
Received Date: 2/9/2012
Requestor's Name: Greg Neal
Collector Sample ID: WEI-OFFSITE-3
Location Collected: 62-150 Gene Welmas Avenue
Mecca, CA
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-offsite-3
DATE: [redacted] 2/7/2012
TIME: 0825
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK, JW
AV01848
Received Date: 2/9/2012
Requestor's Name: Greg Neal
Collector Sample ID: WEI-OFFSITE-4
Location Collected: 62-150 Gene Welmas Avenue
Mecca, CA
WEI MECCA SOIL
SAMPLE ID: WEI-offsite-4
DATE: [redacted] 2/7/2012
TIME: 0944
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK, JW
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-offsite-1
DATE: [redacted] 2/7/2012
TIME: 0910
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK, JW
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-offsite-2
DATE: [redacted] 2/7/2012
TIME: 10:21
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK, JW
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-offsite-3
DATE: [redacted] 2/7/2012
TIME: 0825
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK, JW
WEI MECCA SOIL
SAMPLE ID: WEI-offsite-4
DATE: [redacted] 2/7/2012
TIME: 0944
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK, JW

California Environmental Protection Agency
Department of Toxic Substances Control
Environmental Chemistry Laboratory
700 Heinz Avenue, Suite 100, Berkeley, CA 94710
Telephone: (510) 540-3003

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

LABORATORY REPORT---POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC

Authorization No. : 11EC0105
ECL No.: AV01845-AV01848

Requestor's Name:	Greg Neal
Address:	5796 Corporate Ave., Cypress, CA 90630
Sampling Location:	Mecca, CA
	62-150 Gene Welmas Ave., Mecca, CA

Table of Contents

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Sample Analysis Request	8
Sample Receipt and Photos	9-12

The results listed within this report pertain only to the samples tested in the laboratory. These results have been reviewed for technical correctness and completeness. This report was reviewed and approved for release.

Report Reviewed by: Carol Walker Date 3/16/2012
QA Chemist or Designee

Report Approved by: John Quinn Date 3/16/2012
John Quinn Ph.D, Section Chief

California Environmental Protection Agency
Department of Toxic Substances Control
Environmental Chemistry Laboratory
700 Heinz Avenue, Suite 100, Berkeley, CA 94710
Telephone: (510) 540-3003

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

LABORATORY REPORT---POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC

Authorization No. : 11EC0105 **Priority:** 2

ECL No.: AV01845-AV01848 **Page:** 2 of 12

1. Sampling Location: WEI Mecca
   62-150 Gene Welmas Ave., Mecca, CA
2. Requestor' Name: Greg Neal
   Address: 5796 Corporate Ave., Cypress, CA 90630
3. Sample (s) History:
   Date Collected: 2/7/2012
   Date Received: 2/9/2012
   Date Extracted/Digested: 2/17/2012 Method: EPA 3546
   Date Analyzed: 2/29/2012 - 3/1/2012 Method: EPA 8310

   Date data package was completed: 3/7/2012

Case narrative:

1. Initial calibration and continuing calibration criteria were met? ☑ Yes ☐ No
2. Method blank criteria were met? ☑ Yes ☐ No
3. QC parameters were within control limits? ☑ Yes ☐ No
4. Surrogate standards were within control limits? ☑ Yes ☐ No
5. RRT window criteria met? ☑ Yes ☐ No
6. Sample holding time was met? ☑ Yes ☐ No

Comments:

If any of the above answer is "NO" please explain in details.

Sample Prepared by: Date 3/16/12
Mehdi Nikbakht

Sample Analyzed by: Date 3/16/12
Mehdi Nikbakht

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

California Environmental Protection Agency
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LABORATORY REPORT---POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC

Authorization No. : 11EC0105 **Priority:** 2

ECL No.: AV01845-AV01848 Page: 3 of 12

Reference Method: EPA 8310

Analytical Procedure: Samples are extracted by method 3510C and then analyzed using high performance liquid chromatography (HPLC).

ECL NO.		AV01845	AV01846	AV01847	AV01848		Method Blank	**Reporting Limit (not corrected for dilution)**
Requestor's No		WEI-offsite-1	WEI-offsite-2	WEI-offsite-3	WEI-offsite-4			
Extraction Date		2/17/2012	2/17/2012	2/17/2012	2/17/2012		2/17/2012	
Analysis Date		3/1/2012	3/1/2012	3/1/2012	3/1/2012		2/29/2012	
Dilution Factor		1	1	1	1		1	
Matrix Type		Soil	Soil	Soil	Soil		Sand	
Units		µg/Kg	µg/Kg	µg/Kg	µg/Kg		µg/Kg	
Compounds:	CAS #							
Acenaphthylene	208-96-8	ND	ND	ND	ND		ND	**10**
Acenaphthene	83-32-9	ND	ND	ND	ND		ND	**10**
Anthracene	120-12-7	ND	ND	ND	ND		ND	**10**
Benzo(a)anthracene	56-55-3	ND	ND	ND	ND		ND	**10**
Benzo(a)pyrene	50-32-8	**19.5**	**22.3**	**37.7**	**19.7**		ND	**10**
Benzo(b)fluoranthene	205-99-2	ND	ND	ND	ND		ND	**10**
Benzo(g,h,i)perylene	191-24-2	**10.5**	**18.9**	**10.0**	**10.2**		ND	**10**
Benzo(k)fluroanthene	207-08-9	ND	ND	ND	ND		ND	**10**
Chrysene	218-01-9	ND	**14.4**	**25.0**	ND		ND	**10**
Dibenzo(a,h)anthracene	53-70-3	ND	ND	**19.4**	ND		ND	**10**
Fluorene	86-73-7	ND	ND	ND	ND		ND	**10**
Fluoranthene	206-44-0	ND	ND	ND	ND		ND	**10**
Indeno(1,2,3-c,d)pyrene	193-39-5	ND	ND	ND	ND		ND	**10**
Naphthalene	91-20-3	ND	ND	ND	ND		ND	**10**
Phenanthrene	85-01-8	ND	ND	ND	ND		ND	**10**
Pyrene	129-00-0	ND	ND	ND	ND		ND	**10**

Surrogate Standards:		% Recovery						
Terphenyl-d14	1718-51-0	84	86	107	112		102	

Surrogate Control Limits	**Liquid**	
Nitrobenzene-d5	70	130
2-Fluorobiphenyl	70	130
Terphenyl-d14	70	130

ND = Not Detected < Quantitation Limit
NR = Not Recovered (For Surrogate Standards)
Quantitation Limit = (Reporting Limit) x (Dilution Factor)

Comments: (If any sample has different QL due to Dilution Factor (DF), mention under comments)

California Environmental Protection Agency
Department of Toxic Substances Control
Environmental Chemistry Laboratory

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

LABORATORY QUALITY CONTROL REPORT -- POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC

Authorization No. : 11EC0105 **Priority:** 2

ECL No.: AV01845-AV01848 Page: 4 of 12

Quality Control Parameter	Laboratory Control Spike/Laboratory Contol Spike Duplicate									
Extraction Date	2/17/2012									
Analysis Date	2/29/2012 - 3/1/2012									
Matrix Type	Solid									
		LCS		LCSD		LCS/LCSD RPD	Control Limits			Quantitation Limits
	Spike Added	Amount Recovered	Recovery	Amount Recovered	Recovery		Recovery		RPD	
Units	µg/Kg	µg/Kg	%	ug/Kg	%	%	%		%	µg/Kg
Naphthalene	250	261	104	243	97	7.1	70	130	20	**10**
Acenaphthylene	250	232	93	207	83	11.4	70	130	20	**10**
Acenaphthene	250	243	97	223	89	8.6	70	130	20	**10**
Fluorene	250	240	96	211	84	12.9	70	130	20	**10**
Phenanthrene	250	241	96	215	86	11.4	70	130	20	**10**
Anthracene	250	240	96	221	88	8.2	70	130	20	**10**
Fluoranthene	250	245	98	234	94	4.6	70	130	20	**10**
Pyrene	250	244	98	235	94	3.8	70	130	20	**10**
Benzo(a)anthracene	250	268	107	270	108	0.7	70	130	20	**10**
Chrysene	250	273	109	275	110	0.7	70	130	20	**10**
Benzo(b)fluoranthene	250	272	109	274	110	0.7	70	130	20	**10**
Benzo(k)fluoranthene	250	273	109	275	110	0.7	70	130	20	**10**
Benzo(a)pyrene	250	239	96	238	95	0.4	70	130	20	**10**
Dibenz(a,h)anthracene	250	268	107	269	108	0.4	70	130	20	**10**
Benzo(g,h,i)perylene	250	259	104	258	103	0.4	70	130	20	**10**
Indeno(1,2,3-cd)pyrene	250	267	107	269	108	0.7	70	130	20	**10**
Surrogates:			% Recovery		% Recovery					
Terphenyl-d14	250	268	107	266	106		70	130		

Notes:

NR = Not Recovered (For Surrogate Standard)
ND = Not Detected<Quantitation Limit

Quantitation Limit = (reporting limit) x (dilution factor)

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

California Environmental Protection Agency
Department of Toxic Substances Control
Environmental Chemistry Laboratory
700 Heinz Avenue, Suite 100, Berkeley, CA 94710
Telephone: (510) 540-3003

LABORATORY QUALITY CONTROL REPORT -- POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC

Authorization No. : 11EC0105 **Priority:** 2

ECL No.: AV01845-AV01848

Quality Control Parameter	MATRIX SPIKE/MATRIX SPIKE DUPLICATE										
Extraction Date	2/17/2012										
Analysis Date	3/1/2012										
Matrix Type	Solid										
	ECL No.	AV01845	Matrix Spike		Matrix Spike Duplicate			MS/MSD RPD	Control Limits		
	Sample Unspiked	Spike Added	Amount Recovered	Recovery	Spike Added	Amount Recovered	Recovery		Recovery		RPD
Units	µg/Kg	µg/Kg	µg/Kg	%	µg/Kg	µg/Kg	%	%	%		%
Naphthalene	ND	250	197	79					70	130	20
Acenaphthylene	ND	250	203	81					70	130	20
Acenaphthene	ND	250	210	84					70	130	20
Fluorene	ND	250	196	78					70	130	20
Phenanthrene	ND	250	197	79					70	130	20
Anthracene	ND	250	201	80					70	130	20
Fluoranthene	ND	250	207	83					70	130	20
Pyrene	ND	250	211	84					70	130	20
Benzo(a)anthracene	ND	250	230	92					70	130	20
Chrysene	ND	250	239	96					70	130	20
Benzo(b)fluoranthene	ND	250	234	94					70	130	20
Benzo(k)fluoranthene	ND	250	236	94					70	130	20
Benzo(a)pyrene	19.5	250	271	101					70	130	20
Dibenz(a,h)anthracene	ND	250	255	102					70	130	20
Benzo(g,h,i)perylene	10.5	250	284	109					70	130	20
Indeno(1,2,3-cd)pyrene	ND	250	245	98					70	130	20
Surrogates:				% Recovery			% Recovery				
Terphenyl-d14	84		96						70	130	

Notes:

NR = Not Recovered (For Surrogate Standard)
ND = Not Detected<Quantitation Limit

Quantitation Limit = (Reporting limit) x (dilution factor)

California Environmental Protection Agency
Department of Toxic Substances Control
Environmental Chemistry Laboratory
700 Heinz Avenue, Suite 100, Berkeley, CA 94710

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

LABORATORY QUALITY CONTROL REPORT -- POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC

Authorization No. : 11EC0105 **Priority:** 2

ECL No.: AV01845-AV01848 Page: 6 of 12

Quality Control Parameter	Sample Replicate Analysis				
Extraction Date	2/17/2012				
Analysis Date	3/1/2012				
Matrix	Solid				
ECL No:	AV01846		RPD	RPD Control Limits	Quantitation Limits
	Sample Results	Replicate Results			
Units	µg/Kg	µg/Kg	%	%	µg/Kg
Naphthalene	ND	ND		20	10
Acenaphthylene	ND	ND		20	10
Acenaphthene	ND	ND		20	10
Fluorene	ND	ND		20	10
Phenanthrene	ND	ND		20	10
Anthracene	ND	ND		20	10
Fluoranthene	ND	ND		20	10
Pyrene	ND	ND		20	10
Benzo(a)anthracene	ND	ND		20	10
Chrysene	14.4	13.7	5	20	10
Benzo(b)fluoranthene	ND	ND		20	10
Benzo(k)fluoranthene	ND	ND		20	10
Benzo(a)pyrene	22.3	18.4	19	20	10
Dibenz(a,h)anthracene	ND	ND		20	10
Benzo(g,h,i)perylene	18.9	15.8	18	20	10
Indeno(1,2,3-cd)pyrene	ND	ND		20	10

Surrogates:	% Recovery	% Recovery	Control Limits	
Terphenyl-d14	86	81	70	130

Notes:

ND = Not Detected < Quantitation Limit
NR = Not Recovered (For Surrogate Standard)

Quantitation Limit = lowest calibration standard x dilution factor
NC = Not Calculated

State of California
California Environmental Protection

Department of Toxic Substances Control
Environmental Chemistry Laboratory

SUPPLEMENTAL ☐
(Check if Supplemental Requested)

AUTHORIZATION REQUEST FORM (ARF)

PART A : (By Requestor - PLEASE PRINT)

Unit chief's signature required: (for Rush or TAT Level = 1)

Turnaround Time (TAT) : *Rush ☐ *Level 1 ☐ 2 ☑ 3 ☐

Requestor's Name	Greg Neal	Email	gneal @dtsc.ca.gov	Phone (714) 484-5455
Region	04–Cypress	Unit	BERP-Engineering & Geology	Fax (714) 484-5411
Back-up Requestor	Alfredo Zanoria			Phone (714) 484-5422
Site Name	Western Environmental Inc - Mecca			AREA CODE

PART B: Analytical Requests (By Requestor) (Lab uses default methods listed below. Please specify all other requests.)

Inorganic Analysis	Number of Samples/Type Solid	Liquid	Water	Other
% Dry Solids (ECL730-S)				
Acidity (305-1)				
Alkalinity (310-1)				
Anions by IC (9056)				
Chromium VI(Cr^{6+}) by Colorimetric (7196A)				
Chromium VI(Cr^{6+}) in Water by IC (7199)				
Cyanides for Wastes,Leachates (9010B)	4			
Hardness (130-2)				
Mercury(Hg) in (Semi)Solid Waste (7471A)	4			
Mercury(Hg) in Liquid Waste (7470A)				
Metals Screening by XRF				
Metals Scan (6010B, for As,Ba,Cu,Pb, etc)				
Metals Scan (for Drinking water, 6020A)				
OrganoLead in Waste (ECL938-M)				
Particle Size (ECL740-S)				
Perchlorate for Soil,Sludge (ECL955-M)				
Perchlorate for Water (314-0)				
pH (9040B, 9045C)				
Total Dissolved Solids (160-1)				
WET(ECL910-S) ☐ Only if necessary ☐ Do it regardless				
(others, type in)				

TO AIL

Organic Analysis	Number of Samples/Type Solid	Liquid	Water	Other
GRO (Gasoline, 8015B)				
DRO(Diesel) only (ECL816-M)				
Motor Oil only (ECL816-M)				
DRO(Diesel) & Motor Oil (ECL816-M)				
EthyleneGlycol (ECL772-M)				
PBDEs (ECL750-M)				
PCBs (8082)				
Pesticides - Chlorinated (8081A)				
Pesticides - Organophosphate (8141A)	4			
1,4-Dioxane (ECL830-S)				
GC/MS Semivolatiles (8270C)				
Volatiles (8260B)				
HPLC Carbonyl Compounds (8315A)				
Explosives (8330)				
PAHs (8310)	4			
Dioxins/Furans by HRGC/HRMS (ECL880-M)	4			
Flash Point (1020A)				
n-Hexane Extractables/TPH (1664)				
TXO-Total Halogens in Oil (ECL792-S)				
(others, type in)				
(others, type in)				

TCLP Analysis**						
Metals	☐ Only if necessary	☐ Do it regardless				
Mercury	☑ Only if necessary	☐ Do it regardless	4			
Volatiles	☐ Only if necessary	☐ Do it regardless				
Semivolatiles	☐ Only if necessary	☐ Do it regardless				
(others, type in)						

Other Analysis				
Fish Bioassay (Title 22)				
Congener PCBs (ECL-CG-PCB)				
Congener PBDEs (ECL-CG-PBDE)				
(others,type in)				
(others, type in)				

Analysis Objective: Site Characterization

Special Instructions or Comments (For Example: Detection Limit, Sample Preparation, Extraction..., etc.):

Lowest achieveable DLs. Dioxins/furans by EPA 8290 if DL is lower than ECL method. Cyanide by 9010 if DL is lower than 9014.

Expected Sample Arrival Date: 02/08/12 (mm/dd/yy)

PART C : (By SMO - ECL)

Authorization Number (AN): **11EC0105**

ARF's Revision No. Initials: Date:

Lab to Receive Sample(s): Environmental Chemistry Lab, 700 Heinz Ave. Suite 150, Berkeley, CA 94710, Attn: Lloyd Williams (510) 540-2189

ARF's Revision No. Initials: Date:

Sample Management Officer (SMO): AW

☐ Check box if cancelled Initials: Date:

Today's Date: 02/01/12 (mm/dd/yy) Expiration Date: 02/18/12 (mm/dd/yy)

If Sample(s) Directed to Contract Lab, Please Specify:

Reason:

ECL Personnel Confirmed:

ECL Contract Lab Manager Notification (for Rush or TAT Level =1):

Turnaround Time (TAT): * Rush for public health and safety or emergency, *Level 1 = 15 days, 2 = 30 days, 3 = 45 days.
**TCLP : If time permits and sample matrix type is appropriate, lab may analyze or screen the sample(s) first to determine if TCLP is needed.
Reference: ECL User's Manual.

4-402 & 4-802 JARS

State of California
California Environmental Protection Agency

Department of Toxic Substances Control
Environmental Chemistry Laboratory

ENVIRONMENTAL CHEMISTRY LABORATORY SAMPLE ANALYSIS REQUEST	1. Authorization Number 11SC0105, 11AT0105, 11EC0105	ECL No.: AV01845 To AV01848	2. Page 1 of 1

3. Requestor: (to Receive Results) a. Name: Greg Neal
b. Address: 5796 Corporate Avenue (street number)
Cypress, Ca 90630 (city, state, zip)
c. Phone: (714) 484-5455 (area code first) d. Fax: (714) 484-5411 (area code first)
e. Email: gneal @dtsc.ca.gov

4. Project Name (if applicable): Western Environmental - Mecca

5. TAT Level: 2

6. Sampling Information: a. Date/Time Sampled: 02/07/12 (mm/dd/yy)
b. Location: EPA ID No. (#:## AM/PM)
Site: Western Environmental - Mecca
Address: 62-150 Gene Welmas Avenue (street number)
Mecca, Ca (city, state, zip)
GPS-Lat: 33.595781 GPS-Long: -116.086148
GPS-Alt: GPS-Depth:

7. Codes (select from drop down list or fill in if applicable)
a. Unit E&ERP-Enforcement(Chatsworth)
b. INDEX 6310
c. PCA 36195
d. MPC 962
e. SITE 551115-48
f. County 33--Riverside

8. Samples:

a. ID	b. Collector's No.	c. ECL No.	d. Matrix	e. Container Size	f. Number of containers	g. Preservative / Field Information
1	WEI-Offsite-1	AV01845	Soil	2-4oz glass, 3-8oz glass	5	Ice
2	WEI-Offsite-2	AV01846	Soil	2-4oz glass, 3-8oz glass	5	Ice
3	WEI-Offsite-3	AV01847	Soil	2-4oz glass, 3-8oz glass	5	Ice
4	WEI-Offsite-4	AV01848	Soil	2-4oz glass, 3-8oz glass	5	Ice
5						
6						
7						
8						
9						

9. Analysis Requested: Enter sample IDs and sample ID ranges separated by commas. For example, 1-3, 5-7, 9

a. Inorganic Analysis	Sample(s) ID	b. Organic Analysis	Sample(s) ID
Cyanides for Wastes, Leachates(9010B)	1, 2, 3, 4	Pesticides - Chlorinated (8081B or 8081A)	1, 2, 3, 4
✓ Mercury in (Semi)Solid Waste (7471A)	1, 2, 3, 4	Pesticides - Organophosphate (8141B or 8141A)	1, 2, 3, 4
Metals Scan (ICP-AES, 6010B or 6010C)	1, 2, 3, 4	PCBs (8082A or 8082)	1, 2, 3, 4
pH for Solid (9045C)	1, 2, 3, 4	HPLC--PAHs (8310)	1, 2, 3, 4
Chromium VI by Colorimetric(7196A)	1, 2, 3, 4	Dioxins/Furans by HRGC/HRMS(ECL880-M)	1, 2, 3, 4
Other Metals:			

c. TCLP Analysis			d. Other Analysis	
Metals	(only if necessary)	1, 2, 3, 4	Metals STLC (only if necessary)	1, 2, 3, 4
Mercury	(only if necessary)	1, 2, 3, 4		

e. Comments for Multiphasic Samples/Analysis Priority:

10. Analysis Objective: Other (contact lab first). Please specify: Human Health Risk

11. Detection Limit Requirements: (Check ECL User's Manual to assure default DL is sufficient.) 7473 for Hg not 7471
Lowest Achievable

12. Supplemental Requests: Enter sample IDs as described in Item 9

Desired Analysis	Sample(s) ID

Initials
Date

13. ECL Lab Remarks:
MS, pH, WET, TCLP, PCB, OCl
5/1 2-8oz jars

ECL Berkeley Received 4-4oz jars + 4-8oz glass jars - LW

14. Chain of Custody:

	Name	Title	Signature	Inclusive Dates of Custody	
a.	Wendy Arano	Engineering Geologist	Wendy Arano	2/7/2012 to	2/8/2012
b.	Greg Neal	Engineering Geologist	Greg Neal	2/8/12 to	2/8/12
c.	Barbara Bush	Lab Tech	Barbara Bush	2/8/12 to	2/8/12
d.	Lloyd Williams	Lab Tech	Lloyd Williams	2/9/12 to	
e.				to	
f.				to	
g.				to	

FIELD
LAB
COC

FedEx Express **NEW** Package US Airbill

FedEx Tracking Number 8768 1923 1284

Recipient's Copy

1 From

Date

Sender's Name — Phone

Company

Address — Dept./Floor/Suite/Room

City — State — ZIP

2 Your Internal Billing Reference

3 To

Recipient's Name — Phone

Company

Address — Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

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Use this line for the HOLD location address or for continuation of your shipping address.

City — State — ZIP

HOLD Weekday — FedEx location address REQUIRED. NOT available for FedEx First Overnight.

HOLD Saturday — FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

8768 1923 1284

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- FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

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- FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Express Saver* — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

FedEx Envelope* | FedEx Pak* | FedEx Box | FedEx Tube | Other

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No Signature Required — Package may be left without obtaining a signature for delivery.

Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*

Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods? One box must be checked.

No | Yes — As per attached Shipper's Declaration. | Yes — Shipper's Declaration not required. | Dry Ice — Dry Ice, 9, UN 1845 ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

Cargo Aircraft Only

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Total Packages — Total Weight — Total Declared Value† — Credit Card Auth.

____ — ____ lbs — $ ____ .00

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

612

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Environmental Chemistry Laboratory (ECL)
700 Heinz Avenue, Suite#150, Berkeley, CA 94710

Sample Receipt Check List

Authorization Number: 11EC0105

ECL NO. AV01845 - AV01848 Collector's No. See SAR

Sample Check up Criteria	Acceptable Yes	No
1. Sample received in a cooler/ ice chest?	✓	
2. Cooler/ ice chest packed with ice or blue ice?	✓	
3. Cooler/ ice chest temperature within 4^0 C +/- 2^0 C?	✓	
4. Sample condition acceptable (intact and no damage)?	✓	
5. Custody seal present?		✓
6. If yes, custody seal intact?		
7. Sample received in proper containers? (see Table 1 and 2)	✓	
8. Aqueous and liquid samples in 40 mL VOA vials And no head space?		
9. Is there sufficient amount/ volume for all analysis? (see Table 1 and 2)	✓	
10. Received Sample Analysis Request (SAR) with the samples?	✓	
11. Is SAR complete?	✓	
12. Do the No. of samples in SAR and the No. of samples in ARF agree? And within 20% range? # of samples split with ECL LA	✓	
13. Do sample labels agree with SAR?	✓	
14. Sample labels are legible and numbered?	✓	
15. Chain of Custody complete? Name printed, signed and dated ?	✓	
16. Samples properly preserved?	✓	
17 If received by FedEx or UPS, air bill/ packing slip signed, dated and made a copy for file?		

If No (not acceptable), Check for corrective action taken: Yes / No , if No why? _____

Sample login or analysis on hold due to missing information and inform the problem to the Collector
Explain problem _____ Date: _____
Problem corrected _____ Date: _____
OR
✓ Sample analyzed as received _____ Other comments (specify) _____

Received and completed by: Lloyd Williams

Signature: Lloyd Williams Date: 2/9/12

Supervisor's Approval (if any corrective action taken): _____ Date: _____

Department of Toxic Substances Control
Environmental Chemistry Laboratory
700 Heinz Avenue, Suite 150, Berkeley, CA 94710
Phone: (510) 540-3610 Fax: (510) 540-3615

ECL SAMPLE RECEIPT

Printed on: 2/9/2012

Authorization No: 11EC0105

Collector: Greg Neal

Date Collected: 2/7/2012

Date Lab Received: 2/9/2012

Sampling Site: WESTERN ENVIRONMENTAL -
62-150 Gene Welmas Avenue
Mecca, CA

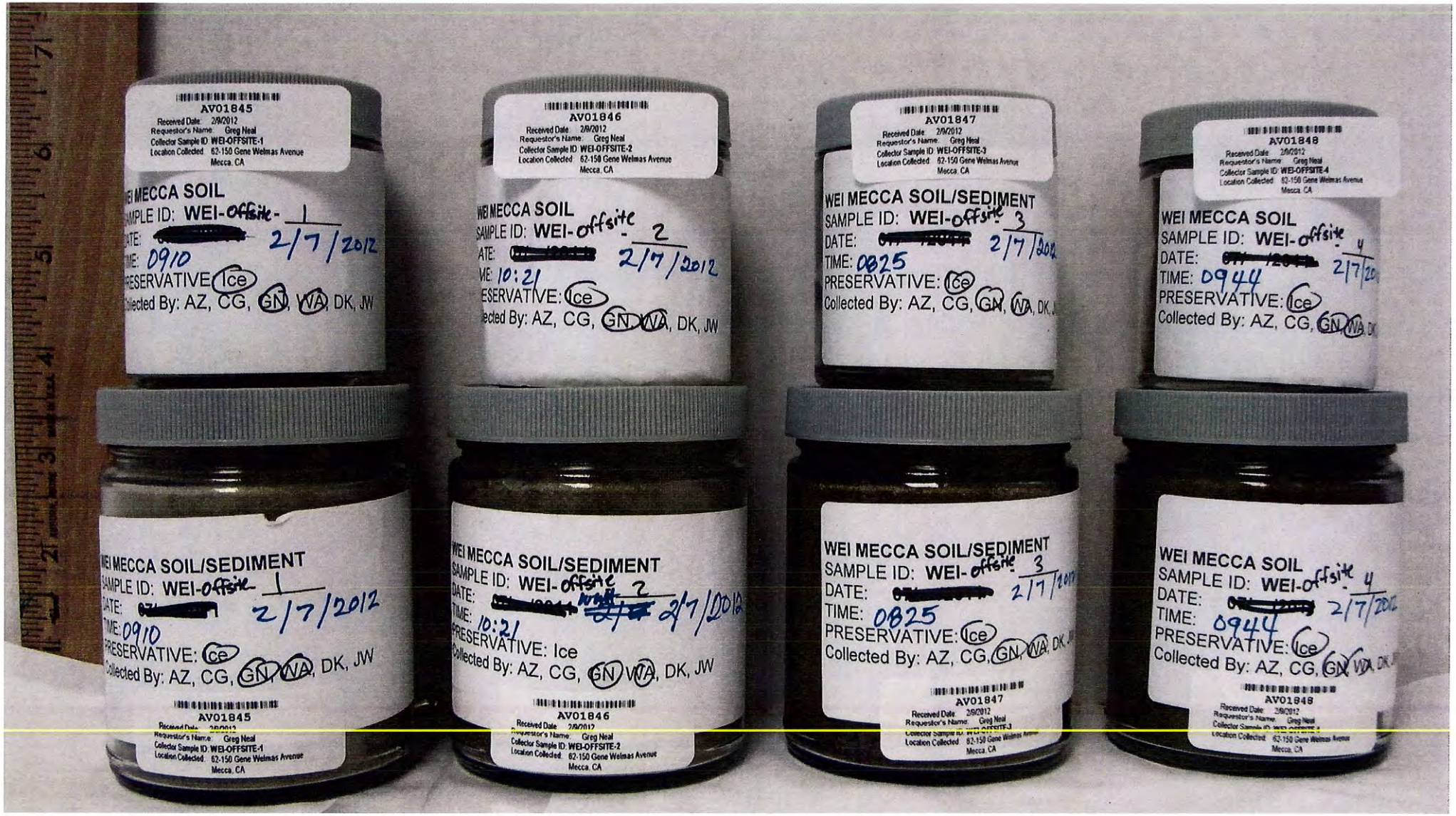
ECL No.	Collector's No.	Sample Matrix	Container		Approximate Amount Rec'D	Custody Seals	Seal Location	Sample Condition	Action Taken
			Type	Size					
AV01845	WEI-OFFSITE-1	Soil	Glass	5(2-4oz glass, 3-8oz glass)	4oz-153.4;8oz-299.0	None		Acceptable	
AV01846	WEI-OFFSITE-2	Soil	Glass	5(2-4oz glass, 3-8oz glass)	4oz-139.2;8oz-279.4	None		Acceptable	
AV01847	WEI-OFFSITE-3	Soil	Glass	5(2-4oz glass, 3-8oz glass)	4oz-114.2;8oz-225.0	None		Acceptable	
AV01848	WEI-OFFSITE-4	Soil	Glass	5(2-4oz glass, 3-8oz glass)	4oz-153.9;8oz-305.7	None		Acceptable	

Comments:

4-4oz glass jars + 4-8oz glass jars

Sample(s) processed by: Lloyd Williams Signature: [signature] Date: 2/9/12

Supervisor's approval (if any action taken): Signature: _____ Date: _____


AV01845
Received Date: 2/9/2012
Requestor's Name: Greg Neal
Collector Sample ID: WEI-OFFSITE-1
Location Collected: 62-150 Gene Welmas Avenue
Mecca, CA
WEI MECCA SOIL
SAMPLE ID: WEI-offsite- 1
DATE: [redacted] 2/7/2012
TIME: 0910
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK, JW
AV01846
Received Date: 2/9/2012
Requestor's Name: Greg Neal
Collector Sample ID: WEI-OFFSITE-2
Location Collected: 62-150 Gene Welmas Avenue
Mecca, CA
WEI MECCA SOIL
SAMPLE ID: WEI-offsite - 2
DATE: [redacted] 2/7/2012
TIME: 10:21
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK, JW
AV01847
Received Date: 2/9/2012
Requestor's Name: Greg Neal
Collector Sample ID: WEI-OFFSITE-3
Location Collected: 62-150 Gene Welmas Avenue
Mecca, CA
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-offsite 3
DATE: [redacted] 2/7/2012
TIME: 0825
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK,
AV01848
Received Date: 2/9/2012
Requestor's Name: Greg Neal
Collector Sample ID: WEI-OFFSITE-4
Location Collected: 62-150 Gene Welmas Avenue
Mecca, CA
WEI MECCA SOIL
SAMPLE ID: WEI-offsite - 4
DATE: [redacted] 2/7/20
TIME: 0944
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-offsite 1
DATE: [redacted] 2/7/2012
TIME: 0910
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK, JW
AV01845
Received Date: 2/9/2012
Requestor's Name: Greg Neal
Collector Sample ID: WEI-OFFSITE-1
Location Collected: 62-150 Gene Welmas Avenue
Mecca, CA
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-offsite 2
DATE: [redacted] 2/7/2012
TIME: 10:21
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK, JW
AV01846
Received Date: 2/9/2012
Requestor's Name: Greg Neal
Collector Sample ID: WEI-OFFSITE-2
Location Collected: 62-150 Gene Welmas Avenue
Mecca, CA
WEI MECCA SOIL/SEDIMENT
SAMPLE ID: WEI-offsite 3
DATE: [redacted] 2/7/2012
TIME: 0825
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK,
AV01847
Received Date: 2/9/2012
Requestor's Name: Greg Neal
Location Collected: 62-150 Gene Welmas Avenue
Mecca, CA
WEI MECCA SOIL
SAMPLE ID: WEI-offsite 4
DATE: [redacted] 2/7/2012
TIME: 0944
PRESERVATIVE: Ice
Collected By: AZ, CG, GN, WA, DK
AV01848
Received Date: 2/9/2012
Requestor's Name: Greg Neal
Location Collected: 62-150 Gene Welmas Avenue
Mecca, CA

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

California Environmental Protection Agency
Department of Toxic Substances Control
Environmental Chemistry Laboratory
1449 W. Temple street , Los Angeles, CA 90026
Telephone: (213) 977-7928

LABORATORY REPORT---POLYCHLORINATED BIPHENYLS (PCBs)

Authorization No. : 11SC0105 Priority 2
ECL No.: AV01839-AV01842 Page 1 of 9

Requestor's Name: Greg Neal
Address: 5796 Corporate Avenue Cypress, CA 90630

Sampling Location: Western Environmental - Mecca
62-150 Gene Welmas Avenue Mecca, CA

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Sample Analysis Request	7
Sample Receipt and Photos	8-9

The results listed within this report pertain only to the samples tested in the laboratory. These results have been reviewed for technical correctness and completeness. This report was reviewed and approved for release.

Report Reviewed by: Eddie Lui Date 3/8/2012
Eddie Lui, Staff Chemist

Report Approved by: Mui Sam Date 3/9/2012
Mui Sam Ph.D., Section Chief

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

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Environmental Chemistry Laboratory
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Telephone: (213) 977-7928

LABORATORY REPORT---POLYCHLORINATED BIPHENYLS (PCBs)

Authorization No. : 11SC0105 **Priority:** 2

ECL No.: AV01839-AV01842 **Page:** 2 of 9

1. Sampling Location: Western Environmental - Mecca
   62-150 Gene Welmas Avenue Mecca, CA

2. Requestor' Name: Greg Neal
   Address: 5796 Corporate Avenue Cypress, CA 90630

3. Sample (s) History:
   Date Collected: 2/7/2012
   Date Received: 2/8/2012
   Date Extracted/Digested: 2/8/2012 Method: EPA 3540
   Date Analyzed: 2/24/2012 Method: EPA 8082A

   Date data package was completed: 3/7/2012

Case narrative:

1. Initial calibration and continuing calibration criteria were met? ☑ Yes ☐ No
2. Methods blanks criteria were met? ☐ Yes ☑ No
3. QC parameters were within control limits? ☑ Yes ☐ No
4. Sample holding time was met? ☑ Yes ☐ No

Comments:

If any of the above answer is "NO" please explain in details.

[2]Decachlorobiphenyl surrogate recovery of Method Blank exceeds control limit. Sample replicate analysis was not reported because sample had no hit.

Sample Prepared by: Hae Lee Date 3/9/12
Hae Lee, Chemist

Sample Analyzed by: Hae Lee Date 3/9/12
Hae Lee, Chemist

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

California Environmental Protection Agency
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Environmental Chemistry Laboratory
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Telephone: (213) 977-7928

LABORATORY REPORT---POLYCHLORINATED BIPHENYLS (PCBs)

Authorization No. : 11SC0105 **Priority:** 2
ECL No.: AV01839-AV01842 Page: 3 of 9

Reference Method: **EPA 8082A**

Analytical Procedure: Solid samples are extracted with methylene chloride following Soxhlet extraction technique. The extract is analyzed by GC/ECD with DB-1701 capillary column.

ECL NO.		AV01839	AV01840	AV01841	AV01842		Method Blank	Reporting Limit (not corrected for dilution factor)
Requestor's No		WEI-Offsite-1	WEI-Offsite-2	WEI-Offsite-3	WEI-Offsite-4			
Extraction Date		2/8/2012	2/8/2012	2/8/2012	2/8/2012		2/8/2012	
Analysis Date		2/24/2012	2/24/2012	2/24/2012	2/24/2012		2/24/2012	
Dilution Factor		1	1	1	1		1	
Matrix Type		soil	soil	soil	soil		soil	
Units		mg/kg	mg/kg	mg/kg	mg/kg		mg/kg	mg/kg
Compound	CAS #							
Aroclor 1016	12674-11-2	ND	ND	ND	ND		ND	0.250
Aroclor 1221	11104-28-2	ND	ND	ND	ND		ND	0.250
Aroclor 1232	11141-16-5	ND	ND	ND	ND		ND	0.250
Aroclor 1242	53469-21-9	ND	ND	ND	ND		ND	0.250
Aroclor 1248	12672-29-6	ND	ND	ND	ND		ND	0.250
Aroclor 1254	11097-69-1	ND	ND	ND	ND		ND	0.250
Aroclor 1260	11096-82-5	ND	ND	ND	ND		ND	0.250
		% Recovery						Limits
2,4,5,6-Tetrachloro-m-xylene	877-9-8	86.91	92.60	96.20	123.0		119	**70-130**
Decachlorobiphenyl	2051-24-3	96.70	97.30	104.0	120.0		327 [R]	**70-130**

[R] Decachlorobiphenyl surrogate had high recovery in Method Blank.

Quantitation Limit = (Reporting Limit) x (dilution factor)

Notes:
ND Not detected < Quantitation Limit
NR Not Recovered (For Surrogate Standard)

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

California Environmental Protection Agency
Department of Toxic Substances Control
Environmental Chemistry Laboratory
1449 W. Temple Street, Los Angeles, CA 90026
Telephone: (213) 977-7928

LABORATORY QUALITY CONTROL REPORT -- POLYCHLORINATED BIPHENYLS (PCBs)

Authorization No. : 11SC0105
ECL No.: AV01839-AV01842

Priority: 2
Page:4 of 9

Quality Control Parameter	Laboratory Control Sample/Laboratory Control Sample Duplicate								
Matrix Type	Solid								
	True Value	Found	Recovery	Found	Recovery	LCS/LCSD RPD	% Recovery Control Limits		Quantitation Limit
Units	mg/kg	mg/kg	%	mg/kg	%	%	Minimum	Maximum	mg/kg
Aroclor 1016	4.000	2.821	70.53	2.822	70.55	0.035442	70.00	130.0	0.250
Aroclor 1260	4.000	2.930	73.25	2.910	72.75	0.6849	70.00	130.0	0.250
Surrogate:									
Decachlorobiphenyl	640.0	591.3	92.39	588.9	92.02	92.39	70.00	130.0	

Quantitation Limit = lowest calibration standard x dilution factor
Notes:

ND = Not Detected < Quantitation Limit
NR = Not Recovered (For Surrogate Standard)
R = %RPD exceeded control limits

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

California Environmental Protection Agency
Department of Toxic Substances Control
Environmental Chemistry Laboratory
1449 W. Temple Street, Los Angeles, CA 90026
Telephone: (213) 977-7928

LABORATORY QUALITY CONTROL REPORT -- POLYCHLORINATED BIPHENYLS (PCBs)

Authorization No. : 11SC0105 **Priority:** 2

ECL No. AV01839-AV01842 **Page: 5 of** 9

Quality Control Parameter	MATRIX SPIKE/MATRIX SPIKE DUPLICATE									
Extraction Date	2/8/2012									
Analysis Date	3/6/2012									
Matrix Type	soil									
	ECL No.	AV01839	Matrix Spike		Matrix Spike Duplicate		MS/MSD RPD	Control Limits		Quantitation
	Sample Unspiked	Spike Added	Amount Recovered	Recovery	Amount Recovered	Recovery		Recovery	RPD	Limit
Units			mg/kg	%		%	%	%	%	mg/kg
Aroclor 1016	0	40.00	29.11	72.78	28.79	71.98	1.087	70-130	0-20	0.250
Aroclor 1260	0	40.00	29.83	74.58	29.67	74.18	0.538	70-130	0-20	0.250
Surrogate:										
Decachlorobiphenyl	0	16000	14500	90.60	14470	90.43	3.011	70-130		

Quantitation Limit = Lowest Calibration Standard x dilution factor

Notes:

ND = Not Detected<Quantitation Limit
NR = Not Recovered (For Surrogate Standard)
R = % RPD exceeded control limits
N/A= Not Applicable

State of California
California Environmental Protection

Department of Toxic Substances Control
Environmental Chemistry Laboratory

SUPPLEMENTAL ☐
(Check if Supplemental Requested)

AUTHORIZATION REQUEST FORM (ARF)

PART A : (By Requestor - PLEASE PRINT)

Unit chief's signature required: (for Rush or TAT Level = 1)

Turnaround Time (TAT) : *Rush ☐ *Level 1 ☐ 2 ☑ 3 ☐

Requestor's Name	Greg Neal	Email	gneal	@dtsc.ca.gov	Phone (714) 484-5455
Region	04--Cypress	Unit	BERP-Engineering & Geology		Fax (714) 484-5411
Back-up Requestor	Alfredo Zanoria				Phone (714) 484-5422
Site Name	Western Environmental Inc - Mecca				AREA CODE

PART B: Analytical Requests (By Requestor) (Lab uses default methods listed below. Please specify all other requests.)

Inorganic Analysis	Number of Samples/Type Solid	Liquid	Water	Other
% Dry Solids (ECL730-S)				
Acidity (305-1)				
Alkalinity (310-1)				
Anions by IC (9056)				
Chromium VI(Cr^{6+}) by Colorimetric (7196A)				
Chromium VI(Cr^{6+}) in Water by IC (7199)	4			
Cyanides for Wastes,Leachates (9010B)	4			
Hardness (130-2)				
Mercury(Hg) in (Semi)Solid Waste (7471A)				
Mercury(Hg) in Liquid Waste (7470A)				
Metals Screening by XRF				
Metals Scan (6010B, for As,Ba,Cu,Pb, etc)				
Metals Scan (for Drinking water, 6020A)	4			
OrganoLead in Waste (ECL938-M)				
Particle Size (ECL740-S)				
Perchlorate for Soil,Sludge (ECL955-M)				
Perchlorate for Water (314-0)				
pH (9040B, 9045C)	4			
Total Dissolved Solids (160-1)				
WET(ECL910-S) ☐ Only if necessary ☐ Do it regardless				
(others, type in) Metals STLC (if Necessary)	4			

TO ATL

Organic Analysis	Number of Samples/Type Solid	Liquid	Water	Other
GRO (Gasoline, 8015B)				
DRO(Diesel) only (ECL816-M)				
Motor Oil only (ECL816-M)				
DRO(Diesel) & Motor Oil (ECL816-M)				
EthyleneGlycol (ECL772-M)				
PBDEs (ECL750-M)				
PCBs (8082)	4			
Pesticides - Chlorinated (8081A)	4			
Pesticides - Organophosphate (8141A)				
1,4-Dioxane (ECL830-S)				
GC/MS Semivolatiles (8270C)				
Volatiles (8260B)				
HPLC Carbonyl Compounds (8315A)				
Explosives (8330)				
PAHs (8310)				
Dioxins/Furans by HRGC/HRMS (ECL880-M)				
Flash Point (1020A)				
n-Hexane Extractables/TPH (1664)				
TXO-Total Halogens in Oil (ECL792-S)				
(others, type in)				
(others, type in)				

TCLP Analysis**			Solid	Liquid	Water	Other
Metals	☑ Only if necessary	☐ Do it regardless	4			
Mercury	☐ Only if necessary	☐ Do it regardless				
Volatiles	☐ Only if necessary	☐ Do it regardless				
Semivolatiles	☐ Only if necessary	☐ Do it regardless				
(others, type in)						

Other Analysis	Solid	Liquid	Water	Other
Fish Bioassay (Title 22)				
Congener PCBs (ECL-CG-PCB)				
Congener PBDEs (ECL-CG-PBDE)				
(others,type in)				
(others, type in)				

Analysis Objective: Site Characterization

Special Instructions or Comments (For Example: Detection Limit, Sample Preparation, Extraction..., etc.):

Lowest achieveable DLs. Dioxins/furans by EPA 8290 if DL is lower than ECL method. Cyanide by 9010 if DL is lower than 9014.

Expected Sample Arrival Date: 02/08/12 (mm/dd/yy)

PART C : (By SMO - ECL)

Authorization Number (AN): 11SC0105

ARF's Revision No. Initials: Date:

Lab to Receive Sample(s): Southern California Lab, 1449 W. Temple St. Rm. 105, Los Angeles, CA 90026, Barbara Bush (213) 482-9744

ARF's Revision No. Initials: Date:

Sample Management Officer (SMO):

☐ Check box if cancelled
Initials: Date:

Today's Date 02/01/12 (mm/dd/yy) Expiration Date 02/18/12 (mm/dd/yy)

If Sample(s) Directed to Contract Lab, Please Specify:

Reason:

ECL Personnel Confirmed:

ECL Contract Lab Manager Notification (for Rush or TAT Level =1):

Turnaround Time (TAT): * Rush for public health and safety or emergency, *Level 1 = 15 days, 2 = 30 days, 3 = 45 days.
**TCLP : If time permits and sample matrix type is appropriate, lab may analyze or screen the sample(s) first to determine if TCLP is needed.
Reference: ECL User's Manual.

State of California
California Environmental Protection Agency

Department of Toxic Substances Control
Environmental Chemistry Laboratory

ENVIRONMENTAL CHEMISTRY LABORATORY SAMPLE ANALYSIS REQUEST

1. Authorization Number 11SC0105, 11AT0105, 11EC0105

ECL No.: AV01839 To AV01842

2. Page 1 of 1

3. Requestor: (to Receive Results) a. Name: Greg Neal
b. Address: 5796 Corporate Avenue (street number)
Cypress, Ca 90630 (city, state, zip)
c. Phone: (714) 484-5455 (area code first) d. Fax: (714) 484-5411 (area code first)
e. Email: gneal @dtsc.ca.gov

4. Project Name (if applicable): Western Environmental - Mecca

5. TAT Level: 2

6. Sampling Information: a. Date/Time Sampled: 02/07/12 (mm/dd/yy) (#:## AM/PM)
b. Location: EPA ID No.
Site: Western Environmental - Mecca
Address: 62-150 Gene Welmas Avenue (street number)
Mecca, Ca (city, state, zip)
GPS-Lat: 33.595781 GPS-Long: -116.086148
GPS-Alt: GPS-Depth:

7. Codes (select from drop down list or fill in if applicable)
a. Unit E&ERP-Enforcement(Chatsworth)
b. INDEX 6310
c. PCA 36195
d. MPC 962
e. SITE 551115-48
f. County 33--Riverside

8. Samples:

a. ID	b. Collector's No.	c. ECL No.	d. Matrix	e. Container Size	f. Number of containers	g. Preservative / Field Information
1	WEI-Offsite-1	AV01839	Soil	2-4oz glass, 3-8oz glass	5	Ice
2	WEI-Offsite-2	AV01840	Soil	2-4oz glass, 3-8oz glass	5	Ice
3	WEI-Offsite-3	AV01841	Soil	2-4oz glass, 3-8oz glass	5	Ice
4	WEI-Offsite-4	AV01842	Soil	2-4oz glass, 3-8oz glass	5	Ice
5						
6						
7						
8						
9						

9. Analysis Requested: Enter sample IDs and sample ID ranges separated by commas. For example, 1-3, 5-7, 9

a. Inorganic Analysis	Sample(s) ID	b. Organic Analysis	Sample(s) ID
Cyanides for Wastes, Leachates(9010B)	1, 2, 3, 4	Pesticides - Chlorinated (8081B or 8081A)	1, 2, 3, 4
Mercury in (Semi)Solid Waste (7471A)	1, 2, 3, 4	Pesticides - Organophosphate (8141B or 8141A)	1, 2, 3, 4
Metals Scan (ICP-AES, 6010B or 6010C)	1, 2, 3, 4	PCBs (8082A or 8082)	1, 2, 3, 4
pH for Solid (9045C)	1, 2, 3, 4	HPLC--PAHs (8310)	1, 2, 3, 4
Chromium VI by Colorimetric(7196A)	1, 2, 3, 4	Dioxins/Furans by HRGC/HRMS(ECL880-M)	1, 2, 3, 4
Other Metals:			

c. TCLP Analysis		d. Other Analysis	
Metals (only If necessary)	1, 2, 3, 4	Metals STLC (only if necessary)	1, 2, 3, 4
Mercury (only if necessary)	1, 2, 3, 4		

FIELD

e. Comments for Multiphasic Samples/Analysis Priority:

10. Analysis Objective: Other (contact lab first). Please specify: Human Health Risk

11. Detection Limit Requirements: (Check ECL User's Manual to assure default DL is sufficient.)
Lowest Achievable

12. Supplemental Requests: Enter sample IDs as described in Item 9

Desired Analysis	Sample(s) ID

Initials
Date

ECL

13. ECL Lab Remarks: MS, pH, WET, TCLP, PCB, OCl
511 2-8oz jars Crtb

LAB

14. Chain of Custody:

	Name	Title	Signature	Inclusive Dates of Custody
a.	Wendy Arano	Engineering Geologist	Wendy Arano	2/7/2012 to 2/8/2012
b.	Greg Neal	Engineering Geologist	Greg Neal	2/8/12 to 2/8/12
c.	Barbara Bush	Lab Tech	Barbara Bush	2/8/12 to
d.				to
e.				to
f.				to
g.				to

COC

ENVIRONMENTAL CHEMISTRY LABORATORY - LOS ANGELES
1449 W. TEMPLE STREET
LOS ANGELES, CA 90026
(213) 482-9744 OR (213) 580-5797

REVISION NO. 1, AUG 2002

SAMPLE RECEIPT

AUTHORIZATION NO. 11SC0105 ERP

DATE RECEIVED 2/8/12

HML SAMPLE NO(s). AV01839-42

RECORDED BY B Bush

CUSTODY SEALS [ ] PRESENT [X] ABSENT [ ] BROKEN

Circle All Partial (All) Partial On _____ Lab No.

SAMPLE CONDITION

1. [X] Acceptable
2. [ ] Sample container received damaged
3. [ ] Sample received in improper container
4. [ ] Insufficient sample volume/weight for analysis
5. [ ] Sample container not labeled or illegibly labeled
6. [ ] Discrepancies between the ARF and the SAR
7. [ ] Sample Analysis Request form not received with the sample(s)
8. [ ] Sample Analysis Request form not completed
9. [ ] Chain of custody not complete
10. [ ] Sample received without proper preservation
11. [ ] No information on sample preservation
12. [ ] Other (Specify) _____

CORRECTIVE ACTION TAKEN

- [ ] None
- [ ] Sample analysis on hold for more info
- [ ] Inform sample collector of problem
- [ ] Sample analyzed as received
- [ ] Other (Specify)

_____

_____

To Project Managers - Be AWARE!

- [ ] Samples were not deliver to LAB promptly after collection. Sample holding times may not be met.
- [ ] Samples were not properly packed causing breakage and leakage.
- [ ] LAB was not informed of your special requests or special sample container (e.g., EnCore samplers)

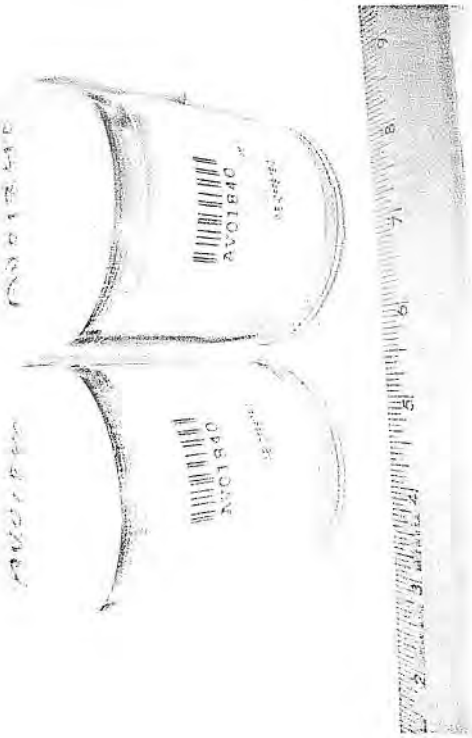
In order for the Lab to handle your analyses efficiently, please avoid these problems from happening again.

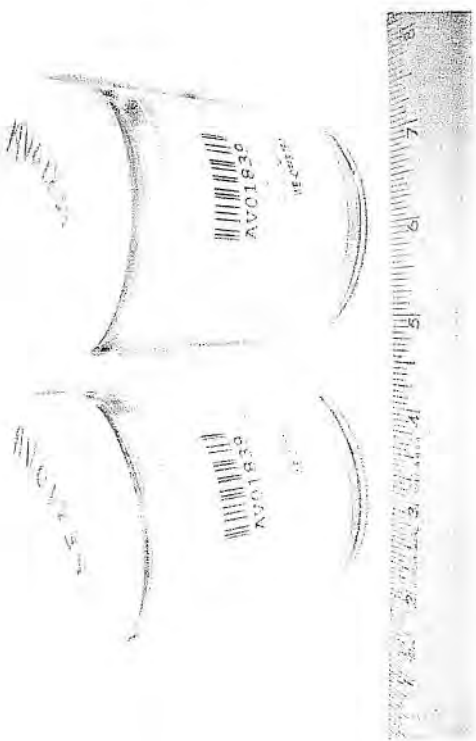
CONTACTS MADE: FAXES, PHONE CALLS, E-MAILS, ETC.

	Date		Initial
1			
2			
3			
4			

AA01842
AA01841

AA01841
AA01842


AA01840
AA01840


AA01839
AA01839

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

California Environmental Protection Agency
Department of Toxic Substances Control
Environmental Chemistry Laboratory
1449 W. Temple Street, Los Angeles, CA 90026
Telephone: (213) 580-5797 or (213) 977-7928

LABORATORY REPORT---ORGANOCHLORINE PESTICIDES

Authorization No. : 11SC0105 Priority 2
ECL No.: AV01839 - AV01842 Page 1 of 9

Requestor's Name: Greg Neal
Address: 5796 Corporate Avenue, Cypress, CA 90630

Sampling Location: Western Environmental- Mecca
62-150 Gene Welmas Avenue, Mecca, CA

Table of Contents

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Case Narrative	2
Analytical Reports	3-5
Authorization Form	6
Sample Analysis Request	7
Sample Receipt and Photos	8-9

The results listed within this report pertain only to the samples tested in the laboratory. These results have been reviewed for technical correctness and completeness. This report was reviewed and approved for release.

Report Reviewed by:
Hae Lee
Hae Lee, Chemist
Date 3/8/12

Report Approved by:
Mui Sam
Mui Sam Ph.D., Section Chief
Date 3/8/12

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

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LABORATORY REPORT---ORGANOCHLORINE PESTICIDES

Authorization No. : 11SC0105 **Priority:** 2

ECL No.: AV01839 - AV01842 **Page:** 2 of 9

1. Sampling Location: Western Environmental- Mecca
   62-150 Gene Welmas Avenue, Mecca, CA

2. Requestor' Name: Greg Neal
   Address: 5796 Corporate Avenue, Cypress, CA 90630

3. Sample (s) History:
   Date Collected: 2/7/2012
   Date Received: 2/8/2012
   Date Extracted/Digested: 2/13/2012 Method: EPA 3540C
   Date Analyzed: 3/6/2012 Method: EPA 8081B

   Date data package was completed: 3/8/2012

Case narrative:

1. Initial calibration and continuing calibration criteria were met? ☑ Yes ☐ No
2. Methods blanks criteria were met? ☑ Yes ☐ No
3. QC parameters were within control limits? ☑ Yes ☐ No
4. Sample holding time was met? ☑ Yes ☐ No

Comments:

If any of the above answer is "NO" please explain in details.

Sample Prepared by: Eddie Lui Date 3/8/2012
Eddie Lui, Staff Chemist

Sample Analyzed by: Eddie Lui Date 3/8/2012
Eddie Lui, Staff Chemist

California Environmental Protection Agency
Department of Toxic Substances Control
Environmental Chemistry Laboratory
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Telephone: (213) 580-5797 or (213) 977-7928

LABORATORY REPORT---ORGANOCHLORINE PESTICIDES

Authorization No. : 11SC0105 **Priority:** 2

ECL No.: AV01839 - AV01842 Page: 3 of 9

Reference Method: **EPA 8081B**

Analytical Procedure: Solid samples are extracted with methylene chloride then solvent exchanged to hexane using the appropriate matrix-specific sample extraction technique. The extract is analyzed by GC/ECD with DB-1701 capillary column and DB-5 capillary column for confirmation.

ECL NO.		AV01839	AV01840	AV01841	AV01842		Method Blank	Reporting Limit (not corrected for dilution factor)
Requestor's No		WEI-Offsite-1	WEI-Offsite-2	WEI-Offsite-3	WEI-Offsite-4			
Extraction Date:		2/13/2012	2/13/2012	2/13/2012	2/13/2012		2/13/2012	
Analysis Date:		3/6/2012	3/6/2012	3/6/2012	3/6/2012		3/6/2012	
Dilution Factor:		1	1	1	1		1	
Matrix Type		Soil	Soil	Soil	Soil		Soil	
Units		µg/kg	µg/kg	µg/kg	µg/kg		µg/kg	µg/kg
Compounds:	CAS #							
Alpha-BHC	319-84-6	ND	ND	ND	ND		ND	**2.50**
Beta-BHC	319-85-7	ND	ND	ND	ND		ND	**2.50**
Gamma-BHC (Lindane)	58-89-9	ND	ND	ND	ND		ND	**2.50**
Delta-BHC	319-86-8	ND	ND	ND	ND		ND	**2.50**
Heptachlor	76-44-8	ND	ND	ND	ND		ND	**2.50**
Aldrin	309-00-2	ND	ND	ND	ND		ND	**2.50**
Heptachlor Epoxide	1024-57-3	ND	ND	ND	ND		ND	**2.50**
Gamma-Chlordane	5103-74-2	ND	ND	ND	ND		ND	**2.50**
Endosulfan I	959-98-8	ND	ND	ND	ND		ND	**2.50**
Alpha-Chlordane	5103-71-9	ND	ND	ND	ND		ND	**2.50**
4,4'-DDE	72-55-9	ND	6.84	3.69	13.9		ND	**2.50**
Dieldrin	65-57-1	ND	ND	ND	ND		ND	**2.50**
Endrin	72-20-8	ND	ND	ND	ND		ND	**2.50**
Endosulfan II	33213-65-9	ND	ND	ND	ND		ND	**2.50**
4,4'-DDD	72-54-8	ND	ND	ND	ND		ND	**2.50**
Endrin Aldehyde	7421-93-4	ND	ND	ND	ND		ND	**2.50**
Endosulfan Sulfate	1031-07-8	ND	ND	ND	ND		ND	**2.50**
4,4'-DDT	50-29-3	ND	3.35	ND	ND		ND	**2.50**
Methoxyclor	72-43-5	ND	ND	ND	ND		ND	**2.50**
Endrin Ketone	53494-70-5	ND	ND	ND	ND		ND	**2.50**
Surrogates:		% Recovery						Limits
2456 Tetracholoro-M-Xylene	877-9-8	90.2	88.3	116	88.9		89.2	70-130
Decachlorobiphenyl	2051-24-3	89.8	91.4	82.4	90.2		88.6	70-130

Quantitation Limit = (Reporting Limit) x (dilution factor)
Comments: (if any sample has different QL due to DF, mention under comments)

Notes:

ND	Not detected < Quantitation Limit	NM	Not measured
NR	Not Recovered (For Surrogate Standard)	D	>40% difference between columns

California Environmental Protection Agency
Department of Toxic Substances Control
Environmental Chemistry Laboratory
1449 West Temple Street, Los Angeles, CA 90026

LABORATORY QUALITY CONTROL REPORT -- ORGANOCHLORINE PESTICIDES

Authorization No. : 11SC0105 **Priority:** 2
ECL No.: AV01839 - AV01842 Page: 4 of 9

Quality Control Parameter	Laboratory Control Sample					
Extraction Date	2/13/2012					
Analysis Date	3/6/2012					
Matrix Type	Sand					
	True Value	Found	Recovery	% Recovery Control Limits		Quantitation Limit
Units	µg/kg	µg/kg	%	Minimum	Maximum	µg/kg
Gamma-BHC (Lindane)	50.0	47.1	94.1	70	130	2.50
Heptachlor	50.0	45.5	91.0	70	130	2.50
Aldrin	50.0	42.7	85.5	70	130	2.50
Gamma-Chlordane	50.0	42.9	85.8	70	130	2.50
Alpha-Chlordane	50.0	43.3	86.7	70	130	2.50
4,4'-DDE	50.0	42.9	85.8	70	130	2.50
Dieldrin	50.0	41.3	82.7	70	130	2.50
Endrin	50.0	48.9	97.8	70	130	2.50
4,4'-DDD	50.0	45.0	90.0	70	130	2.50
4,4'-DDT	50.0	47.3	94.6	70	130	2.50
Methoxyclor	50.0	49.9	100	70	130	2.50
Surrogate:				Control Limits		
2456 Tetrachloro-M-Xylene	40.0	37.2	93.1	70	130	
Decachlorobiphenyl	160	162	101	70	130	

Quality Control Parameter	Sample Replicate Analysis				
Extraction Date	2/13/2012				
Analysis Date	3/6/2012				
Matrix: Soil	ECL No: AV01841		RPD or RSD	RPD Control	Quantitation Limits
Dilution Factor:	1	1			
Units	µg/kg	µg/kg	%	%	µg/kg
Alpha-BHC	ND	ND	-	20	2.50
Beta-BHC	ND	ND	-	20	2.50
Gamma-BHC (Lindane)	ND	ND	-	20	2.50
Delta-BHC	ND	ND	-	20	2.50
Heptachlor	ND	ND	-	20	2.50
Aldrin	ND	ND	-	20	2.50
Heptachlor Epoxide	ND	ND	-	20	2.50
Gamma-Chlordane	ND	ND	-	20	2.50
Endosulfan I	ND	ND	-	20	2.50
Alpha-Chlordane	ND	ND	-	20	2.50
4,4'-DDE	3.69	3.54	4.09	20	2.50
Dieldrin	ND	ND	-	20	2.50
Endrin	ND	ND	-	20	2.50
Endosulfan II	ND	ND	-	20	2.50
4,4'-DDD	ND	ND	-	20	2.50
Endrin Aldehyde	ND	ND	-	20	2.50
Endosulfan Sulfate	ND	ND	-	20	2.50
4,4'-DDT	ND	ND	-	20	2.50
Methoxyclor	ND	ND	-	20	2.50
Endrin Ketone	ND	ND	-	20	2.50
Surrogates:	% Recovery		Control Limits		
2456 Tetrachloro-M-Xylene	116	124	70	130	
Decachlorobiphenyl	82.4	96.2	70	130	

Quantitation Limit = Reporting limit x dilution factor

Notes: (-) = No Data ND = Not Detected < Quantitation Limit

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

California Environmental Protection Agency
Department of Toxic Substances Control
Environmental Chemistry Laboratory
1449 W. Temple Street, Los Angeles, CA 90026
Telephone: (213) 580-5797 or (213) 977-7928

LABORATORY QUALITY CONTROL REPORT -- ORGANOCHLORINE PESTICIDES

Authorization No. : 11SC0105 **Priority:** 2

ECL No. AV01839-AV01842 Page: 5 of 9

Quality Control Parameter	MATRIX SPIKE/MATRIX SPIKE DUPLICATE									
Extration Date	2/13/2012									
Analysis Date	3/6/2012									
Matrix Type	Soil									
	ECL No.	AV01841	Matrix Spike		Matrix Spike Duplicate		MS/MSD RPD	Control Limits		Quantitation Limits
	Sample Unspiked	Spike Added	Amount Recovered	Recovery	Amount Recovered	Recovery		Recovery	RPD	
Units	µg/kg	µg/kg	µg/kg	%	µg/kg	%	%	%	%	µg/kg
Gamma-BHC (Lindane)	0	40.0	44.4	111	39.8	99.6	10.8	70-130	20	**2.50**
Heptachlor	0	40.0	47.0	117	41.3	103	12.9	70-130	20	**2.50**
Aldrin	0	40.0	39.8	99.6	35.5	88.9	11.4	70-130	20	**2.50**
Gamma-Chlordane	0	40.0	38.5	96.2	35.8	89.5	7.19	70-130	20	**2.50**
Alpha-Chlordane	0	40.0	38.5	96.3	35.9	89.6	7.15	70-130	20	**2.50**
4,4'-DDE	3.69	40.0	41.2	93.7	38.2	86.3	7.51	70-130	20	**2.50**
Dieldrin	0	40.0	36.8	92.0	34.1	85.2	7.78	70-130	20	**2.50**
Endrin	0	40.0	44.3	111	40.8	102	8.35	70-130	20	**2.50**
4,4'-DDD	0	40.0	39.6	99.1	36.1	90.3	9.26	70-130	20	**2.50**
4,4'-DDT	0	40.0	41.5	104	37.5	93.8	10.2	70-130	20	**2.50**
Methoxychlor	0	40.0	44.6	112	40.3	101	10.2	70-130	20	**2.50**
Surrogate:										
2456 Tetrachloro-M-Xylene		40.0	32.2	80.5	44.0	110		70-130		
Decachlorobiphenyl		160	139	87.0	130	81.5		70-130		

Comments:

Quantitation Limit = Lowest Calibration Standard x dilution factor

Notes:

ND = Not Detected<Quantitation Limit

NR = Not Recovered (For Surrogate Standard)

R = % RPD exceeded control limits

J = estimated value

State of California
California Environmental Protection

Department of Toxic Substances Control
Environmental Chemistry Laboratory

SUPPLEMENTAL ☐
(Check if Supplemental Requested)

AUTHORIZATION REQUEST FORM (ARF)

PART A : (By Requestor - PLEASE PRINT)

*Unit chief's signature required: (for Rush or TAT Level = 1)

Turnaround Time (TAT): *Rush ☐ *Level 1 ☐ 2 ☑ 3 ☐

Requestor's Name	Greg Neal	Email	gneal @dtsc.ca.gov	Phone	(714) 484-5455
Region	04--Cypress	Unit	BERP-Engineering & Geology	Fax	(714) 484-5411
Back-up Requestor	Alfredo Zanoria			Phone	(714) 484-5422
Site Name	Western Environmental Inc - Mecca				AREA CODE

PART B: Analytical Requests (By Requestor) (Lab uses default methods listed below. Please specify all other requests.)

Inorganic Analysis	Number of Samples/Type Solid	Liquid	Water	Other
% Dry Solids (ECL730-S)				
Acidity (305-1)				
Alkalinity (310-1)				
Anions by IC (9056)				
Chromium VI(Cr^{6+}) by Colorimetric (7196A)				
Chromium VI(Cr^{6+}) in Water by IC (7199)	4			
Cyanides for Wastes,Leachates (9010B)	4			
Hardness (130-2)				
Mercury(Hg) in (Semi)Solid Waste (7471A)				
Mercury(Hg) in Liquid Waste (7470A)				
Metals Screening by XRF				
Metals Scan (6010B, for As,Ba,Cu,Pb, etc)				
Metals Scan (for Drinking water, 6020A)	4			
OrganoLead in Waste (ECL938-M)				
Particle Size (ECL740-S)				
Perchlorate for Soil,Sludge (ECL955-M)				
Perchlorate for Water (314-0)				
pH (9040B, 9045C)	4			
Total Dissolved Solids (160-1)				
WET(ECL910-S) ☐ Only if necessary ☐ Do it regardless				
(others, type in) Metals STLC (if Necessary)	4			

TO ATL

Organic Analysis		Number of Samples/Type Solid	Liquid	Water	Other
GRO (Gasoline, 8015B)					
DRO(Diesel) only (ECL816-M)					
Motor Oil only (ECL816-M)					
DRO(Diesel) & Motor Oil (ECL816-M)					
EthyleneGlycol (ECL772-M)					
PBDEs (ECL750-M)					
PCBs (8082)		4			
Pesticides - Chlorinated (8081A)		4			
Pesticides - Organophosphate (8141A)					
1,4-Dioxane (ECL830-S)					
GC/MS	Semivolatiles (8270C)				
	Volatiles (8260B)				
HPLC	Carbonyl Compounds (8315A)				
	Explosives (8330)				
	PAHs (8310)				
Dioxins/Furans by HRGC/HRMS (ECL880-M)					
Flash Point (1020A)					
n-Hexane Extractables/TPH (1664)					
TXO-Total Halogens in Oil (ECL792-S)					
(others, type in)					
(others, type in)					

TCLP Analysis**			Number of Samples/Type
Metals	☑ Only if necessary	☐ Do it regardless	4
Mercury	☐ Only if necessary	☐ Do it regardless	
Volatiles	☐ Only if necessary	☐ Do it regardless	
Semivolatiles	☐ Only if necessary	☐ Do it regardless	
(others, type in)			

Other Analysis	Number of Samples/Type
Fish Bioassay (Title 22)	
Congener PCBs (ECL-CG-PCB)	
Congener PBDEs (ECL-CG-PBDE)	
(others,type in)	
(others, type in)	

Analysis Objective: Site Characterization

Special Instructions or Comments (For Example: Detection Limit, Sample Preparation, Extraction..., etc.):

Lowest achieveable DLs. Dioxins/furans by EPA 8290 if DL is lower than ECL method. Cyanide by 9010 if DL is lower than 9014.

Expected Sample Arrival Date: 02/08/12 (mm/dd/yy)

PART C : (By SMO - ECL)

Authorization Number (AN): 11SC0105

ARF's Revision No. Initials: Date:

Lab to Receive Sample(s): Southern California Lab, 1449 W. Temple St. Rm. 105, Los Angeles, CA 90026, Barbara Bush (213) 482-9744

ARF's Revision No. Initials: Date:

Sample Management Officer (SMO): [signature]

☐ Check box if cancelled Initials: Date:

Today's Date 02/01/12 (mm/dd/yy) Expiration Date 02/18/12 (mm/dd/yy)

If Sample(s) Directed to Contract Lab, Please Specify:

Reason:

ECL Personnel Confirmed:

ECL Contract Lab Manager Notification (for Rush or TAT Level =1):

Turnaround Time (TAT): * Rush for public health and safety or emergency, *Level 1 = 15 days, 2 = 30 days, 3 = 45 days.
**TCLP: If time permits and sample matrix type is appropriate, lab may analyze or screen the sample(s) first to determine if TCLP is needed.
Reference: ECL User's Manual.

State of California
California Environmental Protection Agency

Department of Toxic Substances Control
Environmental Chemistry Laboratory

7

ENVIRONMENTAL CHEMISTRY LABORATORY
SAMPLE ANALYSIS REQUEST

1. Authorization Number: 11SC0105, 11AT0105, 11EC0105

ECL No.: AV01839 To AV01842

2. Page 1 of 1

3. Requestor: (to Receive Results) a. Name: Greg Neal
b. Address: 5796 Corporate Avenue (street number)
Cypress, Ca 90630 (city, state, zip)
c. Phone: (714) 484-5455 (area code first) d. Fax: (714) 484-5411 (area code first)
e. Email: gneal @dtsc.ca.gov

4. Project Name (if applicable): Western Environmental - Mecca

5. TAT Level: 2

6. Sampling Information: a. Date/Time Sampled: 02/07/12 (mm/dd/yy) (#:## AM/PM)
b. Location: EPA ID No.
Site: Western Environmental - Mecca
Address: 62-150 Gene Welmas Avenue (street number)
Mecca, Ca (city, state, zip)
GPS-Lat: 33.595781 GPS-Long: -116.086148
GPS-Alt: GPS-Depth:

7. Codes (select from drop down list or fill in if applicable)
a. Unit E&ERP-Enforcement(Chalsworth)
b. INDEX 6310
c. PCA 36195
d. MPC 962
e. SITE 551115-48
f. County 33--Riverside

8. Samples:

a. ID	b. Collector's No.	c. ECL No.	d. Matrix	e. Container Size	f. Number of containers	g. Preservative / Field Information
1	WEI-Offsite-1	AV01839	Soil	2-4oz glass, 3-8oz glass	5	Ice
2	WEI-Offsite-2	AV01840	Soil	2-4oz glass, 3-8oz glass	5	Ice
3	WEI-Offsite-3	AV01841	Soil	2-4oz glass, 3-8oz glass	5	Ice
4	WEI-Offsite-4	AV01842	Soil	2-4oz glass, 3-8oz glass	5	Ice
5						
6						
7						
8						
9						

9. Analysis Requested: Enter sample IDs and sample ID ranges separated by commas. For example, 1-3, 5-7, 9

a. Inorganic Analysis	Sample(s) ID	b. Organic Analysis	Sample(s) ID
Cyanides for Wastes, Leachates(9010B)	1, 2, 3, 4	Pesticides - Chlorinated (8081B or 8081A)	1, 2, 3, 4
Mercury in (Semi)Solid Waste (7471A)	1, 2, 3, 4	Pesticides - Organophosphate (8141B or 8141A)	1, 2, 3, 4
Metals Scan (ICP-AES, 6010B or 6010C)	1, 2, 3, 4	PCBs (8082A or 8082)	1, 2, 3, 4
pH for Solid (9045C)	1, 2, 3, 4	HPLC--PAHs (8310)	1, 2, 3, 4
Chromium VI by Colorimetric(7196A)	1, 2, 3, 4	Dioxins/Furans by HRGC/HRMS(ECL880-M)	1, 2, 3, 4
Other Metals:			
c. TCLP Analysis		**d. Other Analysis**	
Metals (only if necessary)	1, 2, 3, 4	Metals STLC (only if necessary)	1, 2, 3, 4
Mercury (only if necessary)	1, 2, 3, 4		

FIELD

e. Comments for Multiphasic Samples/Analysis Priority:

10. Analysis Objective: Other (contact lab first). Please specify: Human Health Risk

11. Detection Limit Requirements: (Check ECL User's Manual to assure default DL is sufficient.)
Lowest Achievable

12. Supplemental Requests: Enter sample IDs as described in Item 9

Desired Analysis	Sample(s) ID

Initials
Date

ECL

13. ECL Lab Remarks:
MS, pH, WET, TCLP, PCB, OCI
5/1 2-8oz jars

LAB

14. Chain of Custody:

	Name	Title	Signature	Inclusive Dates of Custody
a.	Wendy Arano	Engineering Geologist	Wendy Arano	2/7/2012 to 2/8/2012
b.	Greg Neal	Engineering Geologist	Greg Neal	2/8/12 to 2/8/12
c.	Barbara Bush	Lab Tech	Barbara Bush	2/8/12 to
d.				to
e.				to
f.				to
g.				to

COC

ECL02 (REV 01/11)

Make Photocopies for Your File

ENVIRONMENTAL CHEMISTRY LABORATORY - LOS ANGELES
1449 W. TEMPLE STREET
LOS ANGELES, CA 90026
(213) 482-9744 OR (213) 580-5797

REVISION NO. 1, AUG 2002

SAMPLE RECEIPT

AUTHORIZATION NO. 11SC0105 EERP

DATE RECEIVED 2/8/12

HML SAMPLE NO(s). AV01839-42

RECORDED BY B Bush

CUSTODY SEALS [ ] PRESENT [X] ABSENT [ ] BROKEN

Circle All Partial (All) Partial On _____ Lab No.

SAMPLE CONDITION

1. [X] Acceptable
2. [ ] Sample container received damaged
3. [ ] Sample received in improper container
4. [ ] Insufficient sample volume/weight for analysis
5. [ ] Sample container not labeled or illegibly labeled
6. [ ] Discrepancies between the ARF and the SAR
7. [ ] Sample Analysis Request form not received with the sample(s)
8. [ ] Sample Analysis Request form not completed
9. [ ] Chain of custody not complete
10. [ ] Sample received without proper preservation
11. [ ] No information on sample preservation
12. [ ] Other (Specify) _____

CORRECTIVE ACTION TAKEN

- [ ] None
- [ ] Sample analysis on hold for more info
- [ ] Inform sample collector of problem
- [ ] Sample analyzed as received
- [ ] Other (Specify)

_____

_____

To Project Managers - Be AWARE!

- [ ] Samples were not deliver to LAB promptly after collection. Sample holding times may not be met.
- [ ] Samples were not properly packed causing breakage and leakage.
- [ ] LAB was not informed of your special requests or special sample container (e.g., EnCore samplers)

In order for the Lab to handle your analyses efficiently, please avoid these problems from happening again.

	Date	CONTACTS MADE: FAXES, PHONE CALLS, E-MAILS, ETC.	Initial
1			
2			
3			
4			

AV01839
AV01839

AV01841
AV01841

AV01840
AV01840

AV01842
AV01842

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

California Environmental Protection Agency
Department of Toxic Substances Control
Environmental Chemistry Laboratory
1449 W. Temple St. Room 105
Los Angeles, CA 90026 (213) 977-7928

LABORATORY REPORT -- pH MEASUREMENT

Authorization No. : 11SC0105 EERP Chats
ECL No.: AV01839 - AV01842

Requestor's Name: Greg Neal
Address: 5796 Corporate Ave., Cypress, CA 90630

Sampling Location: Western Environmental - Mecca
62 -150 Gene Welmas Avenue, Mecca, CA

Table of Contents

	Page Number
Case Narrative	2
Analytical Reports	3-4
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Sample Analysis Request	6
Sample Receipt and Photos	7-8

The results listed within this report pertain only to the samples tested in the laboratory. These results have been reviewed for technical correctness and completeness. This report was reviewed and approved for release.

Report Reviewed by:
Yue-Dong Men, Staff Chemist — Date: 2/15/12

Report Approved by:
Mui Sam, Section Chief — Date: 2/15/12

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

California Environmental Protection Agency
Department of Toxic Substances Control
Environmental Chemistry Laboratory
1449 W. Temple Street Room 105
Los Angeles, CA 90026 (213) 977-7928

LABORATORY REPORT
pH ELECTROMETRIC MEASUREMENT

Authorization No. : 11SC0105 EERP Chats **Priority:** 2
ECL No.: AV01839 - AV01842 **Page:** 2 of 8

1. Sampling Location: Western Environmental - Mecca
62 - 150 Gene Welmas Avenue, Mecca, CA

2. Requestor' Name: Greg Neal
Address: 5796 Corporate Ave.
Cypress, CA 90630

3. Sample (s) History:
Date Collected: 2/7/2012
Date Received: 2/8/2012
Date Analyzed: 2/10/2012 Method: 9045D

Date data package was completed: 2/10/2012

Case narrative:

1. Initial calibration and continuing calibration criteria were met? ☐ Yes ☑ No
2. QC parameters were within control limits? ☑ Yes ☐ No
3. Sample holding time was met? ☐ Yes ☑ No

Comments:

If any of the above answers is "NO", please explain in detail.

1. The Initial Calibration verification was low. Not enough standard was available to repeat. New standard had been ordered, but has not arrived. 3. Holding time was missed. Samples were received past hold time.

Analyst:
Barbara Bush
Barbara Bush, Lab Technician — 2/10/2012 Date

Report Reviewed by:
Yue-Dong Men, Staff Chemist — 2/15/12 Date

Report Approved by:
Mui Sam, Ph.D. Section Chief — 2/15/12 Date

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

California Environmental Protection Agency
Department of Toxic Substances Control
Environmental Chemistry Laboratory
1449 W. Temple Street Room 105
Los Angeles, CA 90026 (213) 977-7928

LABORATORY REPORT
pH ELECTROMETRIC MEASUREMENT

Authorization No. : 11SC0105 EERP Chats
ECL No.: AV01839 - AV01842
Date of Analysis: 2/10/2012

Priority: 2
Page: 3 of 8

Reference Method: EPA 9040C / 9045D

Analytical Procedure: EPA Methods 9040C for aqueous wastes and 9045D for soil and solid waste samples. For aqueous samples, pH is measured on the liquid containing a minimum water content. Soil and solid waste samples are extracted with equal weight of deionized water; the aqueous layer is then decanted. pH is determined using Orion pH meter, Model 520A.

ECL NO.	AV01839	AV01840	AV01841	AV01842			
Collecter's No.	WEI-Offsite-1	WEI-Offsite-2	WEI-Offsite-3	WEI-Offsite-4			
Matrix Type	soil	soil	soil	soil			
pH	8.76	7.65	8.48	8.45			

ECL NO.							
Collecter's No.							
Matrix Type							
pH							

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

California Environmental Protection Agency
Department of Toxic Substances Control
Environmental Chemistry Laboratory
1449 W. Temple Street Room 105
Los Angeles, CA 90026 (213) 977-7928

LABORATORY QUALITY CONTROL REPORT
pH ELECTROMETRIC MEASUREMENT

Authorization No. : 11SC0105 EERP Chats
ECL No.: AV01839 - AV01842
Date: 2/10/12

Priority: 2
Page: 4 of 8

Quality Control Parameter	Calibration Standard File					
Standard ID Vendor/PN	Lot No.	Expiration Date	Buffer Type	Buffer	Reading (mV)	Slope (%)
BDH	1101518	Jan-13	Phosphate	7.00	7.05	
J.T. Baker	J43515	Nov-12	Borate	10.01	10.04	97.4

Slope limits 92-102

Quality Control Parameter	Laboratory Control Samples				
Analyte pH Buffer	Source	Lot No	Result		Absolute Difference (pH Units)
			Expected	Observed	
LCS	BDH	1101518	7.00	6.98	0.02
LCS Dup	BDH	1101518	7.00	6.99	0.01

Limit: ± 0.05

Quality Control Parameter	Laboratory Duplicate Sample Results			
ECL No.	Collector's No.	Sample Result	Duplicate Result	Absolute Difference (pH Units)
AV01842	WEI-Offsite-4	8.45	8.49	0.04

Limit: ± 0.1

pH of DI Water used in dilution (For Solid and Solid Wastes)	5.94

State of California
California Environmental Protection

Department of Toxic Substances Control
Environmental Chemistry Laboratory

SUPPLEMENTAL ☐
(Check if Supplemental Requested)

AUTHORIZATION REQUEST FORM (ARF)

PART A : (By Requestor - PLEASE PRINT)

Unit chief's signature required: (for Rush or TAT Level = 1)

Turnaround Time (TAT) : *Rush ☐ *Level 1 ☐ 2 ☑ 3 ☐

Requestor's Name	Greg Neal	Email	gneal @dtsc.ca.gov	Phone (714) 484-5455
Region	04--Cypress	Unit	BERP-Engineering & Geology	Fax (714) 484-5411
Back-up Requestor	Alfredo Zanoria			Phone (714) 484-5422
Site Name	Western Environmental Inc - Mecca			AREA CODE

PART B: Analytical Requests (By Requestor) (Lab uses default methods listed below. Please specify all other requests.)

Inorganic Analysis	Number of Samples/Type Solid	Liquid	Water	Other
% Dry Solids (ECL730-S)				
Acidity (305-1)				
Alkalinity (310-1)				
Anions by IC (9056)				
Chromium VI(Cr^{6+}) by Colorimetric (7196A)				
Chromium VI(Cr^{6+}) in Water by IC (7199)	4			
Cyanides for Wastes,Leachates (9010B)	4			
Hardness (130-2)				
Mercury(Hg) in (Semi)Solid Waste (7471A)				
Mercury(Hg) in Liquid Waste (7470A)				
Metals Screening by XRF				
Metals Scan (6010B, for As,Ba,Cu,Pb, etc)				
Metals Scan (for Drinking water, 6020A)	4			
OrganoLead in Waste (ECL938-M)				
Particle Size (ECL740-S)				
Perchlorate for Soil,Sludge (ECL955-M)				
Perchlorate for Water (314-0)				
pH (9040B, 9045C)	4			
Total Dissolved Solids (160-1)				
WET(ECL910-S) ☐ Only if necessary ☐ Do it regardless				
(others, type in) Metals STLC (if Necessary)	4			

TO ATL

Organic Analysis	Number of Samples/Type Solid	Liquid	Water	Other
GRO (Gasoline, 8015B)				
DRO(Diesel) only (ECL816-M)				
Motor Oil only (ECL816-M)				
DRO(Diesel) & Motor Oil (ECL816-M)				
EthyleneGlycol (ECL772-M)				
PBDEs (ECL750-M)				
PCBs (8082)	4			
Pesticides - Chlorinated (8081A)	4			
Pesticides - Organophosphate (8141A)				
1,4-Dioxane (ECL830-S)				
GC/MS Semivolatiles (8270C)				
Volatiles (8260B)				
HPLC Carbonyl Compounds (8315A)				
Explosives (8330)				
PAHs (8310)				
Dioxins/Furans by HRGC/HRMS (ECL880-M)				
Flash Point (1020A)				
n-Hexane Extractables/TPH (1664)				
TXO-Total Halogens in Oil (ECL792-S)				
(others, type in)				
(others, type in)				

TCLP Analysis**			Number of Samples/Type
Metals	☑ Only if necessary	☐ Do it regardless	4
Mercury	☐ Only if necessary	☐ Do it regardless	
Volatiles	☐ Only if necessary	☐ Do it regardless	
Semivolatiles	☐ Only if necessary	☐ Do it regardless	
(others, type in)			

Other Analysis
Fish Bioassay (Title 22)
Congener PCBs (ECL-CG-PCB)
Congener PBDEs (ECL-CG-PBDE)
(others,type in)
(others, type in)

Analysis Objective: Site Characterization

Special Instructions or Comments (For Example: Detection Limit, Sample Preparation, Extraction..., etc.):

Lowest achieveable DLs. Dioxins/furans by EPA 8290 if DL is lower than ECL method. Cyanide by 9010 if DL is lower than 9014.

Expected Sample Arrival Date: 02/08/12 (mm/dd/yy)

PART C : (By SMO - ECL)

Authorization Number (AN): **11SC0105**

ARF's Revision No. Initials: Date:

Lab to Receive Sample(s): Southern California Lab, 1449 W. Temple St. Rm. 105, Los Angeles, CA 90026, Barbara Bush (213) 482-9744

ARF's Revision No. Initials: Date:

Sample Management Officer (SMO): AW

☐ Check box if cancelled
Initials: Date:

Today's Date 02/01/12 (mm/dd/yy) Expiration Date 02/18/12 (mm/dd/yy)

If Sample(s) Directed to Contract Lab, Please Specify:

Reason:

ECL Personnel Confirmed:

ECL Contract Lab Manager Notification (for Rush or TAT Level =1):

Turnaround Time (TAT): * Rush for public health and safety or emergency, *Level 1 = 15 days, 2 = 30 days, 3 = 45 days.
**TCLP : If time permits and sample matrix type is appropriate, lab may analyze or screen the sample(s) first to determine if TCLP is needed.
Reference: ECL User's Manual

State of California
California Environmental Protection Agency

Department of Toxic Substances Control
Environmental Chemistry Laboratory

ENVIRONMENTAL CHEMISTRY LABORATORY SAMPLE ANALYSIS REQUEST

1. Authorization Number: 11SC0105, 11AT0105, 11EC0105

ECL No.: AV01839 To AV01842

2. Page 1 of 1

3. Requestor: (to Receive Results) a. Name: Greg Neal
b. Address: 5796 Corporate Avenue (street number)
Cypress, Ca 90630 (city, state, zip)
c. Phone: (714) 484-5455 (area code first) d. Fax: (714) 484-5411 (area code first)
e. Email: gneal @dtsc.ca.gov

4. Project Name (if applicable): Western Environmental - Mecca

5. TAT Level: 2

6. Sampling Information: a. Date/Time Sampled: 02/07/12 (mm/dd/yy) (#:## AM/PM)
b. Location: EPA ID No.
Site: Western Environmental - Mecca
Address: 62-150 Gene Welmas Avenue (street number)
Mecca, Ca (city, state, zip)
GPS-Lat: 33.595781 GPS-Long: -116.086148
GPS-Alt: GPS-Depth:

7. Codes (select from drop down list or fill in if applicable)
a. Unit E&ERP-Enforcement(Chatsworth)
b. INDEX 6310
c. PCA 36195
d. MPC 962
e. SITE 551115-48
f. County 33--Riverside

8. Samples:

a. ID	b. Collector's No.	c. ECL No.	d. Matrix	e. Container Size	f. Number of containers	g. Preservative / Field Information
1	WEI-Offsite-1	AV01839	Soil	2-4oz glass, 3-8oz glass	5	Ice
2	WEI-Offsite-2	AV01840	Soil	2-4oz glass, 3-8oz glass	5	Ice
3	WEI-Offsite-3	AV01841	Soil	2-4oz glass, 3-8oz glass	5	Ice
4	WEI-Offsite-4	AV01842	Soil	2-4oz glass, 3-8oz glass	5	Ice
5						
6						
7						
8						
9						

9. Analysis Requested: Enter sample IDs and sample ID ranges separated by commas. For example, 1-3, 5-7, 9

a. Inorganic Analysis	Sample(s) ID	b. Organic Analysis	Sample(s) ID
Cyanides for Wastes, Leachates(9010B)	1, 2, 3, 4	Pesticides - Chlorinated (8081B or 8081A)	1, 2, 3, 4
Mercury in (Semi)Solid Waste (7471A)	1, 2, 3, 4	Pesticides - Organophosphate (8141B or 8141A)	1, 2, 3, 4
Metals Scan (ICP-AES, 6010B or 6010C)	1, 2, 3, 4	PCBs (8082A or 8082)	1, 2, 3, 4
pH for Solid (9045C)	1, 2, 3, 4	HPLC--PAHs (8310)	1, 2, 3, 4
Chromium VI by Colorimetric(7196A)	1, 2, 3, 4	Dioxins/Furans by HRGC/HRMS(ECL880-M)	1, 2, 3, 4
Other Metals:			

c. TCLP Analysis			d. Other Analysis	
Metals	(only if necessary)	1, 2, 3, 4	Metals STLC (only if necessary)	1, 2, 3, 4
Mercury	(only if necessary)	1, 2, 3, 4		

e. Comments for Multiphasic Samples/Analysis Priority:

10. Analysis Objective: Other (contact lab first). Please specify: Human Health Risk

11. Detection Limit Requirements: (Check ECL User's Manual to assure default DL is sufficient.)
Lowest Achievable

12. Supplemental Requests: Enter sample IDs as described in Item 9

Desired Analysis	Sample(s) ID

Initials _____
Date _____

ECL

13. ECL Lab Remarks:
MS, pH, WET, TCLP, PCB, OCl
511 2-8oz jars

FIELD

LAB

14. Chain of Custody:

	Name	Title	Signature	Inclusive Dates of Custody
a.	Wendy Arano	Engineering Geologist	Wendy Arano	2/7/2012 to 2/8/2012
b.	Greg Neal	Engineering Geologist	Greg Neal	2/8/12 to 2/8/12
c.	Barbara Bush	Lab Tech	Barbara Bush	2/8/12 to
d.				to
e.				to
f.				to
g.				to

COC

ENVIRONMENTAL CHEMISTRY LABORATORY - LOS ANGELES
1449 W. TEMPLE STREET
LOS ANGELES, CA 90026
(213) 482-9744 OR (213) 580-5797

REVISION NO. 1, AUG 2002

SAMPLE RECEIPT

AUTHORIZATION NO. 11SC0105 EERP

DATE RECEIVED 2/8/12

HML SAMPLE NO(s). AV01839-42

RECORDED BY B Bush

CUSTODY SEALS [ ] PRESENT [X] ABSENT [ ] BROKEN

Circle All Partial (All) Partial On _____ Lab No.

SAMPLE CONDITION

1. [X] Acceptable
2. [ ] Sample container received damaged
3. [ ] Sample received in improper container
4. [ ] Insufficient sample volume/weight for analysis
5. [ ] Sample container not labeled or illegibly labeled
6. [ ] Discrepancies between the ARF and the SAR
7. [ ] Sample Analysis Request form not received with the sample(s)
8. [ ] Sample Analysis Request form not completed
9. [ ] Chain of custody not complete
10. [ ] Sample received without proper preservation
11. [ ] No information on sample preservation
12. [ ] Other (Specify) _____

CORRECTIVE ACTION TAKEN

- [ ] None
- [ ] Sample analysis on hold for more info
- [ ] Inform sample collector of problem
- [ ] Sample analyzed as received
- [ ] Other (Specify) _____

To Project Managers - Be AWARE!

- [ ] Samples were not deliver to LAB promptly after collection. Sample holding times may not be met.
- [ ] Samples were not properly packed causing breakage and leakage.
- [ ] LAB was not informed of your special requests or special sample container (e.g., EnCore samplers)

In order for the Lab to handle your analyses efficiently, please avoid these problems from happening again

	Date	CONTACTS MADE: FAXES, PHONE CALLS, E-MAILS, ETC.	Initial
1			
2			
3			
4			

AV01839
AV01839

AV01841
AV01841

AV01840
AV01840

AV01842
AV01842