UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE RD.
HOUSTON, TEXAS 77099

January 22, 2015

MEMORANDUM

SUBJECT: Contract Laboratory Program Data Review

Raymond Flores

FROM: Raymond Flores, Alternate ESAT Regional Project Officer
Environmental Services Branch (6MD-HL)

TO: Stephen Tzhone, Superfund Project Manager (6SF-TR)

Site: **ARKWOOD INC.**

Case#: **44761**

SDG#: **DF6A0**

The EPA Region 6 Environmental Services Branch ESAT data review team has completed a review of the submitted Contract Laboratory Program (CLP) data package for the referenced site. The samples analyzed and reviewed are detailed in the attached Regional data review report.

The data package is acceptable for regional use. Problems, if any, are listed in the report narrative. If you have any questions regarding the data review report, please contact me at (281) 983-2139.

9534843

ENVIRONMENTAL SERVICES ASSISTANCE TEAM

ESAT Region 6
10625 Fallstone Road
Houston, TX 77099

Alion Science and Technology

MEMORANDUM

DATE: January 21, 2015

TO: Marvelyn Humphrey, ESAT PO, Region 6 EPA

FROM: Ying-Ping Hsieh, Data Reviewer, ESAT YPH

THRU: Dominic G. Jarecki, ESAT Program Manager, ESAT DGJ

SUBJECT: CLP Data Review

Contract No.:	EP-W-13-026
TO No.:	002
Task/Sub-Task:	2-11
ESAT Doc. No.:	1502-211-0054
TDF No.:	6-15-068A
ESAT File No.:	O-1189

Attached is the data review summary for Case # 44761
SDG # DF6A0
Site Arkwood, Inc.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE ROAD
HOUSTON, TEXAS 77099
ORGANIC REGIONAL DATA ASSESSMENT

CASE NO.	44761	SITE	Arkwood, Inc.
LABORATORY	TALCA	NO. OF SAMPLES	6
CONTRACT#	EP10W001076	MATRIX	Soil
SDG#	DF6A0	REVIEWER (IF NOT ESB)	ESAT
SOW#	DLM02.2/MA2426.0	REVIEWER'S NAME	Ying-Ping Hsieh
SF#	303DD2A3	COMPLETION DATE	January 21, 2015

SAMPLE NO.					
	DF6A0	DF6A5			
	DF6A01	DF6A6			
	DF6A02				
	DF6A4				

DATA ASSESSMENT SUMMARY

		Dioxin/Furan
1.	HOLDING TIMES	O
2.	GC/MS TUNE/INSTR. PERFORM.	O
3.	CALIBRATIONS	M
4.	BLANKS	O
5.	LABEL COMP./CLEANUP STD. RECOVERY	O
6.	MATRIX SPIKE/DUPLICATE/LCS	N/A
7.	OTHER QC	N/A
8.	INTERNAL STANDARDS	O
9.	COMPOUND ID/QUANTITATION	O
10.	PERFORMANCE/COMPLETENESS	O
11.	OVERALL ASSESSMENT	M

O = Data had no problems.
M = Data qualified because of major or minor problems.
Z = Data unacceptable.
NA = Not applicable.

ACTION ITEMS:

AREA OF CONCERN: The OCDD concentrations exceeded the calibration limit for all samples.

COMMENTS/CLARIFICATIONS
REGION 6 CLP QA REVIEW

CASE 44761 **SDG** DF6A0 **SITE** Arkwood, Inc. **LAB** TALCA

COMMENTS: This SDG consisted of six soil samples for Dioxin/Furan analysis following SOW DLM02.2. The samples are also subject to Modified Analysis Request 2426.0, which requires the laboratory to perform Incremental Sampling Methodology for analytical subsampling. The laboratory received three bulk samples (DF6A0, DF6A01, and DF6A02). After subsampling, a duplicate aliquot was collected for each sample for replicate analysis. Samples DF6A4, DF6A5, and DF6A6 were the duplicates of samples DF6A0, DF6A01, and DF6A02, respectively. A ten gram mass (dry weight basis) was used for analysis for each sample.

S4VEM Review was performed for this data package as requested by the Region. Several target analytes were reported at concentrations above the CRQLs in all samples. All samples required dilution to bring target analyte concentrations within the instrument calibration range.

OVERALL ASSESSMENT: The OCDD results were qualified for all samples because of a calibration problem. ESAT's final data qualifiers in the DST indicate the technical usability of all reported sample results. An Evidence Audit was conducted for the CSF, and the audit results were reported on the Evidence Inventory Checklist.

The laboratory responded to the Regional resubmission request (see page 11) and submitted acceptable revisions. However, instead of the needed revised SDG Narrative (page 6) and Form 1s and 2s for the samples, the laboratory submitted the full package again with the pagination different from the original CSF package. The resubmission was placed at the beginning of the original package and should be used as additional information.

The laboratory was contacted for another reporting issue (see Resubmission Request, page 12). The laboratory response is not expected to impact the DST, so the DST included in this report is the final version.

ORGANIC ACRONYMS

%D	Percent Difference
%RSD	Percent Relative Standard Deviation
ARO	Aroclors
BFB	4-Bromofluorobenzene
BNA	Base/Neutral and Acid
CCS	Contract Compliance Screening
CCV	Continuing Calibration Verification
CF	Calibration Factor
CRQL	Contract Required Quantitation Limit
CSF	Complete SDG File
DCB	Decachlorobiphenyl
DFTPP	Decafluorotriphenylphosphine
DMC	Deuterated Monitoring Compound
DST	Data Summary Table
EDM	EXES Data Manager
GC/ECD	Gas Chromatograph/Electron Capture Detector
GC/MS	Gas Chromatograph/Mass Spectrometer
GPC	Gel Permeation Chromatography
IC	Initial Calibration
INDA(B,C)	Individual Standard Mixture A(or B or C)
IS	Internal Standard
LCS	Laboratory Control Sample
LMVOA	Low/Medium Volatile Organic Analysis
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NFG	National Functional Guidelines
OTR/COC	Organic Traffic Report/Chain of Custody
PAH	Polynuclear Aromatic Hydrocarbon
PE	Performance Evaluation
PEM	Performance Evaluation Mixture
PEST	Pesticides
QA	Quality Assurance
QC	Quality Control
QL	Quantitation Limit
RIC	Reconstructed Ion Chromatogram
RPD	Relative Percent Difference
RRF	Relative Response Factor
RRT	Relative Retention Time
RSCC	Regional Sample Control Center
RT	Retention Time
S3VEM	Stage 3 Validation Electronic and Manual (previously called Modified CADRE Review)
S4VEM	Stage 4 Validation Electronic and Manual (previously called Standard Review)
SDG	Sample Delivery Group
SDMC	Semivolatile Deuterated Monitoring Compound
SIM	Selected Ion Monitoring
SMO	Sample Management Office
SOW	Statement of Work
SQL	Sample Quantitation Limit
SVOA	Semivolatile Organic Analysis
TCL	Target Compound List
TCX	Tetrachloro-m-xylene
TIC	Tentatively Identified Compound
TVOA	Trace Volatile Organic Analysis
VDMC	Volatile Deuterated Monitoring Compound
VOA	Volatile Organic Analysis

HEADER DEFINITIONS FOR DIOXIN EXCEL DST

CASE:	Case Number
SDG:	SDG Number
EPASAMP:	EPA Sample Number
LABID:	Laboratory File/Sample ID
MATRIX:	Sample Matrix
ANDATE:	Sample Analysis Date
ANTIME:	Sample Analysis Time
SPLEWT:	Sample Weight
FINALVOL:	Final Sample Extract Volume
CASNUM:	Compound CAS Number
ANALYTE:	Compound Name
CONC:	Compound Concentration
VALDQAL:	Region 6 Organic Data Validation Qualifier (see Organic Data Qualifier Definitions on the next page)
UNITS:	Concentration Units
EMPC:	Estimated Maximum Possible Concentration
EDL:	Estimated Detection Limit
ADJCRQL:	Adjusted Contract Required Quantitation Limit Value
SMPDATE:	Sampling Date
STATLOC:	Station Location

Disclaimer: ESAT verified the accuracy of the information reported in the Excel DST only for the following data fields: CASE, SDG, EPASAMP, MATRIX, ANALYTE, CONC, UNITS, VALDQAL, and ADJCRQL. The data qualifiers in the VALDQAL column indicate the technical usability of the reported results.

ORGANIC DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the ESAT-Region 6 qualifiers assigned to results in the Data Summary Table.

U Not detected at reported quantitation limit.

N Identification is tentative.

J Estimated value.

L Reported concentration is below the CRQL.

M Reported concentration should be used as a raised quantitation limit because of interferences and/or laboratory contamination.

R Unusable.

^ High biased. Actual concentration may be lower than the concentration reported.

v Low biased. Actual concentration may be higher than the concentration reported.

F+ A false positive exists.

F- A false negative exists.

UJ Estimated quantitation limit.

T Identification is questionable because of absence of other commonly coexisting pesticides.

C Identification of pesticide or Aroclor has been confirmed by Gas Chromatography/Mass Spectrometer (GC/MS).

X Identification of pesticide or Aroclor could not be confirmed by GC/MS when attempted.

***** Result not recommended for use because of associated QA/QC performance inferior to that from other analysis.

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	SPLEWT (gm)	FINALVOL (uL)	DILUTION	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	EMPC	EDL	ADJCRQL	SMPDATE	STATLOC
44761	DF6A0	DF6A0	320-10162-1	Soil	12/03/2014	13:55:00	10.2	80	1	1746-01-6	2,3,7,8-TCDD		LJ	ng/kg	1.65		3.93	10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A0	320-10162-1	Soil	12/03/2014	13:55:00	10.2	80	1	40321-76-4	1,2,3,7,8-PeCDD	16.5	LJ	ng/kg			19.6	10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A0	320-10162-1	Soil	12/03/2014	13:55:00	10.2	80	1	57653-85-7	1,2,3,6,7,8-HxCDD	286		ng/kg			19.6	10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A0	320-10162-1	Soil	12/03/2014	13:55:00	10.2	80	1	39227-28-6	1,2,3,4,7,8-HxCDD	74.2		ng/kg			19.6	10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A0	320-10162-1	Soil	12/03/2014	13:55:00	10.2	80	1	19408-74-3	1,2,3,7,8,9-HxCDD	143		ng/kg			19.6	10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A0	320-10162-1	Soil	12/05/2014	00:32:00	10.2	80	4	35822-46-9	1,2,3,4,6,7,8-HpCDD	13400		ng/kg			78.4	10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A0	320-10162-1	Soil	12/05/2014	00:32:00	10.2	80	4	3268-87-9	OCDD	151000	J	ng/kg			157	10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A0	320-10162-1	Soil	12/03/2014	15:55:00	10.2	80	1	51207-31-9	2,3,7,8-TCDF	0.726	LJ	ng/kg			3.93	10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A0	320-10162-1	Soil	12/03/2014	13:55:00	10.2	80	1	57117-41-6	1,2,3,7,8-PeCDF	5.63	LJ	ng/kg			19.6	10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A0	320-10162-1	Soil	12/03/2014	13:55:00	10.2	80	1	57117-31-4	2,3,4,7,8-PeCDF	5.97	LJ	ng/kg			19.6	10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A0	320-10162-1	Soil	12/03/2014	13:55:00	10.2	80	1	57117-44-9	1,2,3,6,7,8-HxCDF	28.6		ng/kg			19.6	10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A0	320-10162-1	Soil	12/03/2014	13:55:00	10.2	80	1	72918-21-9	1,2,3,7,8,9-HxCDF		U	ng/kg		12.9	19.6	10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A0	320-10162-1	Soil	12/03/2014	13:55:00	10.2	80	1	70648-26-9	1,2,3,4,7,8-HxCDF	118		ng/kg			19.6	10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A0	320-10162-1	Soil	12/03/2014	13:55:00	10.2	80	1	60851-34-5	2,3,4,6,7,8-HxCDF	13.6	LJ	ng/kg			19.6	10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A0	320-10162-1	Soil	12/03/2014	13:55:00	10.2	80	1	67562-39-4	1,2,3,4,6,7,8-HpCDF	1660		ng/kg			19.6	10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A0	320-10162-1	Soil	12/03/2014	13:55:00	10.2	80	1	55673-89-7	1,2,3,4,7,8,9-HpCDF	180		ng/kg			19.6	10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A0	320-10162-1	Soil	12/03/2014	13:55:00	10.2	80	1	39001-02-0	OCDF	7950		ng/kg			39.3	10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A0	320-10162-1	Soil	12/03/2014	13:55:00	10.2	80	1	41903-57-5	Total TCDD			ng/kg	20.4			10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A0	320-10162-1	Soil	12/03/2014	13:55:00	10.2	80	1	36088-22-9	Total PeCDD			ng/kg	85.5			10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A0	320-10162-1	Soil	12/03/2014	13:55:00	10.2	80	1	34465-46-8	Total HxCDD	1080		ng/kg				10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A0	320-10162-1	Soil	12/03/2014	13:55:00	10.2	80	1	37871-00-4	Total HpCDD	20300		ng/kg				10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A0	320-10162-1	Soil	12/03/2014	13:55:00	10.2	80	1	55722-27-5	Total TCDF			ng/kg	5.99			10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A0	320-10162-1	Soil	12/03/2014	13:55:00	10.2	80	1	30402-15-4	Total PeCDF			ng/kg	98.4			10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A0	320-10162-1	Soil	12/03/2014	13:55:00	10.2	80	1	55684-94-1	Total HxCDF	2260		ng/kg				10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A0	320-10162-1	Soil	12/03/2014	13:55:00	10.2	80	1	38998-75-3	Total HpCDF	8040		ng/kg				10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A0	320-10162-1	Soil	12/03/2014	13:55:00	10.2	80	1	2222-20-0	Total TEQ - Bird	112		ng/kg				10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A0	320-10162-1	Soil	12/03/2014	13:55:00	10.2	80	1	2222-21-0	Total TEQ - Fish	128		ng/kg				10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A0	320-10162-1	Soil	12/03/2014	13:55:00	10.2	80	1	3333-30-0	Total TEQ - Mammal	288		ng/kg				10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A01	320-10162-2	Soil	12/03/2014	14:38:00	10.1	400	1	1746-01-6	2,3,7,8-TCDD	7.46	LJ	ng/kg			19.9	10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A01	320-10162-2	Soil	12/03/2014	14:38:00	10.1	400	1	40321-76-4	1,2,3,7,8-PeCDD	114		ng/kg			100	10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A01	320-10162-2	Soil	12/03/2014	14:38:00	10.1	400	1	57653-85-7	1,2,3,6,7,8-HxCDD	1900		ng/kg			100	10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A01	320-10162-2	Soil	12/03/2014	14:38:00	10.1	400	1	39227-28-6	1,2,3,4,7,8-HxCDD	553		ng/kg			100	10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A01	320-10162-2	Soil	12/03/2014	14:38:00	10.1	400	1	19408-74-3	1,2,3,7,8,9-HxCDD	1090		ng/kg			100	10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A01	320-10162-2	Soil	12/05/2014	01:59:00	10.1	400	4	35822-46-9	1,2,3,4,6,7,8-HpCDD	84300		ng/kg			400	10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A01	320-10162-2	Soil	12/05/2014	01:59:00	10.1	400	4	3268-87-9	OCDD	698000	J	ng/kg			800	10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A01	320-10162-2	Soil	12/03/2014	16:33:00	10.1	400	1	51207-31-9	2,3,7,8-TCDF	4.59	LJ	ng/kg			19.9	10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A01	320-10162-2	Soil	12/03/2014	14:38:00	10.1	400	1	57117-41-6	1,2,3,7,8-PeCDF	42.1	LJ	ng/kg			100	10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A01	320-10162-2	Soil	12/03/2014	14:38:00	10.1	400	1	57117-31-4	2,3,4,7,8-PeCDF	49.6	LJ	ng/kg			100	10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A01	320-10162-2	Soil	12/03/2014	14:38:00	10.1	400	1	57117-44-9	1,2,3,6,7,8-HxCDF	254		ng/kg			100	10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A01	320-10162-2	Soil	12/03/2014	14:38:00	10.1	400	1	72918-21-9	1,2,3,7,8,9-HxCDF		U	ng/kg		69.1	100	10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A01	320-10162-2	Soil	12/03/2014	14:38:00	10.1	400	1	70648-26-9	1,2,3,4,7,8-HxCDF	1060		ng/kg			100	10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A01	320-10162-2	Soil	12/03/2014	14:38:00	10.1	400	1	60851-34-5	2,3,4,6,7,8-HxCDF	161		ng/kg			100	10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A01	320-10162-2	Soil	12/03/2014	14:38:00	10.1	400	1	67562-39-4	1,2,3,4,6,7,8-HpCDF	11500		ng/kg			100	10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A01	320-10162-2	Soil	12/03/2014	14:38:00	10.1	400	1	55673-89-7	1,2,3,4,7,8,9-HpCDF	1320		ng/kg			100	10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A01	320-10162-2	Soil	12/03/2014	14:38:00	10.1	400	1	39001-02-0	OCDF	44600		ng/kg			200	10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A01	320-10162-2	Soil	12/03/2014	14:38:00	10.1	400	1	41903-57-5	Total TCDD			ng/kg	71.1			10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A01	320-10162-2	Soil	12/03/2014	14:38:00	10.1	400	1	36088-22-9	Total PeCDD			ng/kg	414			10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A01	320-10162-2	Soil	12/03/2014	14:38:00	10.1	400	1	34465-46-8	Total HxCDD	7590		ng/kg				10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A01	320-10162-2	Soil	12/03/2014	14:38:00	10.1	400	1	37871-00-4	Total HpCDD	123000		ng/kg				10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A01	320-10162-2	Soil	12/03/2014	14:38:00	10.1	400	1	55722-27-5	Total TCDF			ng/kg	63.3			10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A01	320-10162-2	Soil	12/03/2014	14:38:00	10.1	400	1	30402-15-4	Total PeCDF	924		ng/kg				10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A01	320-10162-2	Soil	12/03/2014	14:38:00	10.1	400	1	55684-94-1	Total HxCDF	12700		ng/kg				10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A01	320-10162-2	Soil	12/03/2014	14:38:00	10.1	400	1	38998-75-3	Total HpCDF	52600		ng/kg				10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A01	320-10162-2	Soil	12/03/2014	14:38:00	10.1	400	1	2222-20-0	Total TEQ - Bird	775		ng/kg				10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A01	320-10162-2	Soil	12/03/2014	14:38:00	10.1	400	1	2222-21-0	Total TEQ - Fish	891		ng/kg				10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A01	320-10162-2	Soil	12/03/2014	14:38:00	10.1	400	1	3333-30-0	Total TEQ - Mammal	1800		ng/kg				10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A02	320-10162-3	Soil	12/03/2014	15:21:00	10.1	4000	1	1746-01-6	2,3,7,8-TCDD		U	ng/kg		17.1	199	10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A02	320-10162-3	Soil	12/03/2014	15:21:00	10.1	4000	1	40321-76-4	1,2,3,7,8-PeCDD		LJ	ng/kg	545		995	10/23/2014	E-DU7-SU1

44761	DF6A0	DF6A02	320-10162-3	Soil	12/03/2014 15:21:00	10.1	4000	1	57653-85-7	1,2,3,6,7,8-HxCDD	8500		ng/kg			995	10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A02	320-10162-3	Soil	12/03/2014 15:21:00	10.1	4000	1	39227-28-6	1,2,3,4,7,8-HxCDD	2310		ng/kg			995	10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A02	320-10162-3	Soil	12/03/2014 15:21:00	10.1	4000	1	19408-74-3	1,2,3,7,8,9-HxCDD	4950		ng/kg			995	10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A02	320-10162-3	Soil	12/05/2014 03:25:00	10.1	4000	1	35822-46-9	1,2,3,4,6,7,8-HpCDD	382000		ng/kg			995	10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A02	320-10162-3	Soil	12/05/2014 03:25:00	10.1	4000	2	3268-87-9	OCDD	3850000	J	ng/kg			3980	10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A02	320-10162-3	Soil	12/03/2014 17:10:00	10.1	4000	1	51207-31-9	2,3,7,8-TCDF		LJ	ng/kg	25.7		199	10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A02	320-10162-3	Soil	12/03/2014 15:21:00	10.1	4000	1	57117-41-6	1,2,3,7,8-PeCDF		U	ng/kg		55.9	995	10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A02	320-10162-3	Soil	12/03/2014 15:21:00	10.1	4000	1	57117-31-4	2,3,4,7,8-PeCDF	189	LJ	ng/kg			995	10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A02	320-10162-3	Soil	12/03/2014 15:21:00	10.1	4000	1	57117-44-9	1,2,3,6,7,8-HxCDF	1120		ng/kg			995	10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A02	320-10162-3	Soil	12/03/2014 15:21:00	10.1	4000	1	72918-21-9	1,2,3,7,8,9-HxCDF		U	ng/kg		558	995	10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A02	320-10162-3	Soil	12/03/2014 15:21:00	10.1	4000	1	70648-26-9	1,2,3,4,7,8-HxCDF	4090		ng/kg			995	10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A02	320-10162-3	Soil	12/03/2014 15:21:00	10.1	4000	1	60851-34-5	2,3,4,6,7,8-HxCDF	677	LJ	ng/kg			995	10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A02	320-10162-3	Soil	12/03/2014 15:21:00	10.1	4000	1	67562-39-4	1,2,3,4,6,7,8-HpCDF	51300		ng/kg			995	10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A02	320-10162-3	Soil	12/03/2014 15:21:00	10.1	4000	1	55673-89-7	1,2,3,4,7,8,9-HpCDF	5780		ng/kg			995	10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A02	320-10162-3	Soil	12/03/2014 15:21:00	10.1	4000	1	39001-02-0	OCDF	215000		ng/kg			1990	10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A02	320-10162-3	Soil	12/03/2014 15:21:00	10.1	4000	1	41903-57-5	Total TCDD			ng/kg	314			10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A02	320-10162-3	Soil	12/03/2014 15:21:00	10.1	4000	1	36088-22-9	Total PeCDD			ng/kg	2420			10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A02	320-10162-3	Soil	12/03/2014 15:21:00	10.1	4000	1	34465-46-8	Total HxCDD	34500		ng/kg				10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A02	320-10162-3	Soil	12/03/2014 15:21:00	10.1	4000	1	37871-00-4	Total HpCDD	580000		ng/kg				10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A02	320-10162-3	Soil	12/03/2014 15:21:00	10.1	4000	1	55722-27-5	Total TCDF			ng/kg	370			10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A02	320-10162-3	Soil	12/03/2014 15:21:00	10.1	4000	1	30402-15-4	Total PeCDF			ng/kg	4310			10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A02	320-10162-3	Soil	12/03/2014 15:21:00	10.1	4000	1	55684-94-1	Total HxCDF	55500		ng/kg				10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A02	320-10162-3	Soil	12/03/2014 15:21:00	10.1	4000	1	38998-75-3	Total HpCDF	238000		ng/kg				10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A02	320-10162-3	Soil	12/03/2014 15:21:00	10.1	4000	1	2222-20-0	Total TEQ - Bird	3520		ng/kg				10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A02	320-10162-3	Soil	12/03/2014 15:21:00	10.1	4000	1	2222-21-0	Total TEQ - Fish	3960		ng/kg				10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A02	320-10162-3	Soil	12/03/2014 15:21:00	10.1	4000	1	3333-30-0	Total TEQ - Mammal	8450		ng/kg				10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A4	320-10162-4	Soil	12/03/2014 16:04:00	10.0	80	1	1746-01-6	2,3,7,8-TCDD		LJ	ng/kg	1.50		4.0	10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A4	320-10162-4	Soil	12/03/2014 16:04:00	10.0	80	1	40321-76-4	1,2,3,7,8-PeCDD	18.6	LJ	ng/kg			20.0	10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A4	320-10162-4	Soil	12/03/2014 16:04:00	10.0	80	1	57653-85-7	1,2,3,6,7,8-HxCDD	329		ng/kg			20.0	10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A4	320-10162-4	Soil	12/03/2014 16:04:00	10.0	80	1	39227-28-6	1,2,3,4,7,8-HxCDD	85.3		ng/kg			20.0	10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A4	320-10162-4	Soil	12/03/2014 16:04:00	10.0	80	1	19408-74-3	1,2,3,7,8,9-HxCDD	166		ng/kg			20.0	10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A4	320-10162-4	Soil	12/05/2014 01:15:00	10.0	80	4	35822-46-9	1,2,3,4,6,7,8-HpCDD	15600		ng/kg			80.0	10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A4	320-10162-4	Soil	12/05/2014 01:15:00	10.0	80	4	3268-87-9	OCDD	168000	J	ng/kg			160	10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A4	320-10162-4	Soil	12/03/2014 14:03:00	10.0	80	1	51207-31-9	2,3,7,8-TCDF		LJ	ng/kg	0.842		4.0	10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A4	320-10162-4	Soil	12/03/2014 16:04:00	10.0	80	1	57117-41-6	1,2,3,7,8-PeCDF		U	ng/kg		2.46	20.0	10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A4	320-10162-4	Soil	12/03/2014 16:04:00	10.0	80	1	57117-31-4	2,3,4,7,8-PeCDF	5.33	LJ	ng/kg			20.0	10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A4	320-10162-4	Soil	12/03/2014 16:04:00	10.0	80	1	57117-44-9	1,2,3,6,7,8-HxCDF	21.8		ng/kg			20.0	10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A4	320-10162-4	Soil	12/03/2014 16:04:00	10.0	80	1	72918-21-9	1,2,3,7,8,9-HxCDF		U	ng/kg		19.1	20.0	10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A4	320-10162-4	Soil	12/03/2014 16:04:00	10.0	80	1	70648-26-9	1,2,3,4,7,8-HxCDF	149		ng/kg			20.0	10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A4	320-10162-4	Soil	12/03/2014 16:04:00	10.0	80	1	60851-34-5	2,3,4,6,7,8-HxCDF		LJ	ng/kg	18.1		20.0	10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A4	320-10162-4	Soil	12/03/2014 16:04:00	10.0	80	1	67562-39-4	1,2,3,4,6,7,8-HpCDF	1970		ng/kg			20.0	10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A4	320-10162-4	Soil	12/03/2014 16:04:00	10.0	80	1	55673-89-7	1,2,3,4,7,8,9-HpCDF	213		ng/kg			20.0	10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A4	320-10162-4	Soil	12/03/2014 16:04:00	10.0	80	1	39001-02-0	OCDF	9240		ng/kg			40.0	10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A4	320-10162-4	Soil	12/03/2014 16:04:00	10.0	80	1	41903-57-5	Total TCDD			ng/kg	18.4			10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A4	320-10162-4	Soil	12/03/2014 16:04:00	10.0	80	1	36088-22-9	Total PeCDD			ng/kg	85.1			10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A4	320-10162-4	Soil	12/03/2014 16:04:00	10.0	80	1	34465-46-8	Total HxCDD			ng/kg	1210			10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A4	320-10162-4	Soil	12/03/2014 16:04:00	10.0	80	1	37871-00-4	Total HpCDD	23500		ng/kg				10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A4	320-10162-4	Soil	12/03/2014 16:04:00	10.0	80	1	55722-27-5	Total TCDF			ng/kg	8.12			10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A4	320-10162-4	Soil	12/03/2014 16:04:00	10.0	80	1	30402-15-4	Total PeCDF	92.3		ng/kg				10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A4	320-10162-4	Soil	12/03/2014 16:04:00	10.0	80	1	55684-94-1	Total HxCDF			ng/kg	2960			10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A4	320-10162-4	Soil	12/03/2014 16:04:00	10.0	80	1	38998-75-3	Total HpCDF	9640		ng/kg				10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A4	320-10162-4	Soil	12/03/2014 16:04:00	10.0	80	1	2222-20-0	Total TEQ - Bird	127		ng/kg				10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A4	320-10162-4	Soil	12/03/2014 16:04:00	10.0	80	1	2222-21-0	Total TEQ - Fish	146		ng/kg				10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A4	320-10162-4	Soil	12/03/2014 16:04:00	10.0	80	1	3333-30-0	Total TEQ - Mammal	333		ng/kg				10/22/2014	E-DU2-SU28
44761	DF6A0	DF6A5	320-10162-5	Soil	12/03/2014 16:47:00	10.0	400	1	1746-01-6	2,3,7,8-TCDD		LJ	ng/kg	9.52		20.1	10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A5	320-10162-5	Soil	12/03/2014 16:47:00	10.0	400	1	40321-76-4	1,2,3,7,8-PeCDD	120		ng/kg			101	10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A5	320-10162-5	Soil	12/03/2014 16:47:00	10.0	400	1	57653-85-7	1,2,3,6,7,8-HxCDD	2100		ng/kg			101	10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A5	320-10162-5	Soil	12/03/2014 16:47:00	10.0	400	1	39227-28-6	1,2,3,4,7,8-HxCDD	438		ng/kg			101	10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A5	320-10162-5	Soil	12/03/2014 16:47:00	10.0	400	1	19408-74-3	1,2,3,7,8,9-HxCDD	1090		ng/kg			101	10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A5	320-10162-5	Soil	12/05/2014 02:42:00	10.0	400	4	35822-46-9	1,2,3,4,6,7,8-HpCDD	78100		ng/kg			404	10/27/2014	E-DU5-SU1

44761	DF6A0	DF6A5	320-10162-5	Soil	12/05/2014 02:42:00	10.0	400	4	3268-87-9	OCDD	686000	J	ng/kg			808	10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A5	320-10162-5	Soil	12/03/2014 14:41:00	10.0	400	1	51207-31-9	2,3,7,8-TCDF		LJ	ng/kg	4.32		20.1	10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A5	320-10162-5	Soil	12/03/2014 16:47:00	10.0	400	1	57117-41-6	1,2,3,7,8-PeCDF	44.6	LJ	ng/kg			101	10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A5	320-10162-5	Soil	12/03/2014 16:47:00	10.0	400	1	57117-31-4	2,3,4,7,8-PeCDF		U	ng/kg		13.6	101	10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A5	320-10162-5	Soil	12/03/2014 16:47:00	10.0	400	1	57117-44-9	1,2,3,6,7,8-HxCDF	251		ng/kg			101	10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A5	320-10162-5	Soil	12/03/2014 16:47:00	10.0	400	1	72918-21-9	1,2,3,7,8,9-HxCDF		U	ng/kg		87.6	101	10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A5	320-10162-5	Soil	12/03/2014 16:47:00	10.0	400	1	70648-26-9	1,2,3,4,7,8-HxCDF	1080		ng/kg			101	10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A5	320-10162-5	Soil	12/03/2014 16:47:00	10.0	400	1	60851-34-5	2,3,4,6,7,8-HxCDF	159		ng/kg			101	10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A5	320-10162-5	Soil	12/03/2014 16:47:00	10.0	400	1	67562-39-4	1,2,3,4,6,7,8-HpCDF	12000		ng/kg			101	10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A5	320-10162-5	Soil	12/03/2014 16:47:00	10.0	400	1	55673-89-7	1,2,3,4,7,8,9-HpCDF	1320		ng/kg			101	10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A5	320-10162-5	Soil	12/03/2014 16:47:00	10.0	400	1	39001-02-0	OCDF	45600		ng/kg			202	10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A5	320-10162-5	Soil	12/03/2014 16:47:00	10.0	400	1	41903-57-5	Total TCDD			ng/kg	72.0			10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A5	320-10162-5	Soil	12/03/2014 16:47:00	10.0	400	1	36088-22-9	Total PeCDD			ng/kg	405			10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A5	320-10162-5	Soil	12/03/2014 16:47:00	10.0	400	1	34465-46-8	Total HxCDD	7350		ng/kg				10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A5	320-10162-5	Soil	12/03/2014 16:47:00	10.0	400	1	37871-00-4	Total HpCDD	118000		ng/kg				10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A5	320-10162-5	Soil	12/03/2014 16:47:00	10.0	400	1	55722-27-5	Total TCDF			ng/kg	54.9			10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A5	320-10162-5	Soil	12/03/2014 16:47:00	10.0	400	1	30402-15-4	Total PeCDF			ng/kg	850			10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A5	320-10162-5	Soil	12/03/2014 16:47:00	10.0	400	1	55684-94-1	Total HxCDF	23800		ng/kg				10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A5	320-10162-5	Soil	12/03/2014 16:47:00	10.0	400	1	38998-75-3	Total HpCDF	54100		ng/kg				10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A5	320-10162-5	Soil	12/03/2014 16:47:00	10.0	400	1	2222-20-0	Total TEQ - Bird	753		ng/kg				10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A5	320-10162-5	Soil	12/03/2014 16:47:00	10.0	400	1	2222-21-0	Total TEQ - Fish	836		ng/kg				10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A5	320-10162-5	Soil	12/03/2014 16:47:00	10.0	400	1	3333-30-0	Total TEQ - Mammal	1840		ng/kg				10/27/2014	E-DU5-SU1
44761	DF6A0	DF6A6	320-10162-6	Soil	12/03/2014 17:30:00	10.1	4000	1	1746-01-6	2,3,7,8-TCDD		LJ	ng/kg	66.3		198	10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A6	320-10162-6	Soil	12/03/2014 17:30:00	10.1	4000	1	40321-76-4	1,2,3,7,8-PeCDD	580	LJ	ng/kg			995	10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A6	320-10162-6	Soil	12/03/2014 17:30:00	10.1	4000	1	57653-85-7	1,2,3,6,7,8-HxCDD	9050		ng/kg			995	10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A6	320-10162-6	Soil	12/03/2014 17:30:00	10.1	4000	1	39227-28-6	1,2,3,4,7,8-HxCDD	2420		ng/kg			995	10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A6	320-10162-6	Soil	12/03/2014 17:30:00	10.1	4000	1	19408-74-3	1,2,3,7,8,9-HxCDD	5110		ng/kg			995	10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A6	320-10162-6	Soil	12/05/2014 04:08:00	10.1	4000	2	35822-46-9	1,2,3,4,6,7,8-HpCDD	384000		ng/kg			1990	10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A6	320-10162-6	Soil	12/05/2014 04:08:00	10.1	4000	2	3268-87-9	OCDD	3880000	J	ng/kg			3980	10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A6	320-10162-6	Soil	12/03/2014 17:30:00	10.1	4000	1	51207-31-9	2,3,7,8-TCDF		LJ	ng/kg	40.3		198	10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A6	320-10162-6	Soil	12/03/2014 17:30:00	10.1	4000	1	57117-41-6	1,2,3,7,8-PeCDF	209	LJ	ng/kg			995	10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A6	320-10162-6	Soil	12/03/2014 17:30:00	10.1	4000	1	57117-31-4	2,3,4,7,8-PeCDF	205	LJ	ng/kg			995	10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A6	320-10162-6	Soil	12/03/2014 17:30:00	10.1	4000	1	57117-44-9	1,2,3,6,7,8-HxCDF	1080		ng/kg			995	10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A6	320-10162-6	Soil	12/03/2014 17:30:00	10.1	4000	1	72918-21-9	1,2,3,7,8,9-HxCDF		U	ng/kg		428	995	10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A6	320-10162-6	Soil	12/03/2014 17:30:00	10.1	4000	1	70648-26-9	1,2,3,4,7,8-HxCDF	4890		ng/kg			995	10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A6	320-10162-6	Soil	12/03/2014 17:30:00	10.1	4000	1	60851-34-5	2,3,4,6,7,8-HxCDF		LJ	ng/kg	720		995	10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A6	320-10162-6	Soil	12/03/2014 17:30:00	10.1	4000	1	67562-39-4	1,2,3,4,6,7,8-HpCDF	53500		ng/kg			995	10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A6	320-10162-6	Soil	12/03/2014 17:30:00	10.1	4000	1	55673-89-7	1,2,3,4,7,8,9-HpCDF	5890		ng/kg			995	10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A6	320-10162-6	Soil	12/03/2014 17:30:00	10.1	4000	1	39001-02-0	OCDF	220000		ng/kg			1990	10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A6	320-10162-6	Soil	12/03/2014 17:30:00	10.1	4000	1	41903-57-5	Total TCDD			ng/kg	373			10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A6	320-10162-6	Soil	12/03/2014 17:30:00	10.1	4000	1	36088-22-9	Total PeCDD			ng/kg	2220			10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A6	320-10162-6	Soil	12/03/2014 17:30:00	10.1	4000	1	34465-46-8	Total HxCDD			ng/kg	36700			10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A6	320-10162-6	Soil	12/03/2014 17:30:00	10.1	4000	1	37871-00-4	Total HpCDD	588000		ng/kg				10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A6	320-10162-6	Soil	12/03/2014 17:30:00	10.1	4000	1	55722-27-5	Total TCDF			ng/kg	275			10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A6	320-10162-6	Soil	12/03/2014 17:30:00	10.1	4000	1	30402-15-4	Total PeCDF	4180		ng/kg				10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A6	320-10162-6	Soil	12/03/2014 17:30:00	10.1	4000	1	55684-94-1	Total HxCDF			ng/kg	114000			10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A6	320-10162-6	Soil	12/03/2014 17:30:00	10.1	4000	1	38998-75-3	Total HpCDF	251000		ng/kg				10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A6	320-10162-6	Soil	12/03/2014 17:30:00	10.1	4000	1	2222-20-0	Total TEQ - Bird	3770		ng/kg				10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A6	320-10162-6	Soil	12/03/2014 17:30:00	10.1	4000	1	2222-21-0	Total TEQ - Fish	4230		ng/kg				10/23/2014	E-DU7-SU1
44761	DF6A0	DF6A6	320-10162-6	Soil	12/03/2014 17:30:00	10.1	4000	1	3333-30-0	Total TEQ - Mammal	8920		ng/kg				10/23/2014	E-DU7-SU1

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 44761 SDG No. DF6A0 SDG Nos. To Follow Mod. Ref No. 2426.0 Date Rec. 1/6/15

EPA Lab ID: TALCA

Lab Location: West Sacramento, CA

Region: 6 Audit No.: 44761/DF6A0

Re_Submitted CSF? Yes ____ No X

Box No(s): 1

COMMENTS:

Item	Description
3.	The auditor corrected one page number error on Form DC-2-2.

Others. The laboratory did not enter "No. of Shipments" on Form DC-2-2. The auditor corrected this omission.

Over for additional comments.

ORIGINALS	YES	NO	N/A
CUSTODY SEALS			
1. Present on package?	X		
2. Intact upon receipt?	X		
FORM DC-2			
3. Numbering scheme accurate?		X	
4. Are enclosed documents listed?	X		
5. Are listed documents enclosed?	X		
FORM DC-1			
6. Present?	X		
7. Complete?	X		
8. Accurate?	X		
TRAFFIC REPORT /CHAIN-OF-CUSTODY RECORD(s)			
9. Signed?	X		
10. Dated?	X		
AIRBILLS/AIRBILL STICKER			
11. Present?	X		
12. Signed?	X		
13. Dated?	X		
SAMPLE TAGS			
14. Does DC-1 list tags as being included?	X		
15. Present?	X		
OTHER DOCUMENTS			
16. Complete?	X		
17. Legible?	X		
18. Original?		X	
18a. If "NO", does the copy indicate where original documents are located?	X		

Audited by: [signature] Ying-Ping Hsieh / ESAT Data Reviewer Date 1/16/15

Audited by: _____ _____ Date _____

Signature Printed Name/Title

DC-2__

In Reference To Case No:
44761 SDG: DF6A0 (O-1189)

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM

Resubmission Request

Laboratory Name:	TALCA
Lab Contact:	Laura Turpen
Region:	6
Regional Contact:	Raymond Flores - EPA
ESAT Reviewer:	Ying-Ping Hsieh - ESAT

In reference to data for the fraction(s):

Dioxin/Furan

Summary of Questions/Issues:

According to the MA2426.0, SDG Narrative (p. 2), and Dioxin Batch Worksheet (p. 1344); the sample weight entered on Form 1s and 2s was the dry weight for each sample. Therefore, the %Solid should be 100 on these forms. The analyte concentrations were incorrect on all Form 1s and 2s because of this error. Please verify and revise and resubmit these forms.

NOTE: Any laboratory resubmission should be submitted either as an addendum to the original CSF with a revised Form DC-2 or submitted as a new CSF with a new Form DC-2 except for replacement pages (DLM02.2, p. B-13, sec. 2.6.3). Custody seals are required only for regular mail shipments.

Please respond to the above items **before January 14, 2015** by e-mail to Flores.Raymond@epa.gov. If you have any questions, please contact Mr. Flores at 281-983-2139.

Distribution: (1) Lab Copy, (2) Region Copy, and (3) ESAT Copy

In Reference To Case No:
44761 SDG: DF6A0 (O-1189)

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM

Resubmission Request

Laboratory Name:	TALCA
Lab Contact:	Laura Turpen
Region:	6
Regional Contact:	Raymond Flores - EPA
ESAT Reviewer:	Ying-Ping Hsieh - ESAT

In reference to data for the fraction(s):

Dioxin/Furan

Summary of Questions/Issues:

According to Forms 5DFB (pages* 767, 791, 816, and 841), a valley of ≤25% was determined between the peaks of 1,2,3,8-TCDD and 2,3,7,8-TCDD. However, the reviewer could not find the 1,2,3,8-TCDD peak on the associated chromatograms (pages* 776, 801, 826, and 851). Please verify whether the 1,2,3,8-TCDD peak was misidentified as 1,2,3,9-TCDD on these chromatograms, or 1,2,3,8-TCDD was not in the CPS. Please provide needed information and make necessary correction and resubmission. (* The page numbers are those in the original CSF package.) If extra pages need to be submitted after a certain page, the page number with a suffix (i.e. 767A, 767B, 767C, etc.) can be used for pagination to avoid changing other page numbers.

NOTE: Any laboratory resubmission should be submitted either as an addendum to the original CSF with a revised Form DC-2 or submitted as a new CSF with a new Form DC-2 except for replacement pages (DLM02.2, p. B-13, sec. 2.6.3). Custody seals are required only for regular mail shipments.

Please respond to the above items **within 7 days** by e-mail to Flores.Raymond@epa.gov. If you have any questions, please contact Mr. Flores at 281-983-2139.

Distribution: (1) Lab Copy, (2) Region Copy, and (3) ESAT Copy

USEPA CLP Organics COC (REGION COPY)

DateShipped: 10/29/2014

CarrierName: FedEx

AirbillNo: 7716 6145 6611

CHAIN OF CUSTODY RECORD

Arkwood Inc. Superfund Site/AR

Case #: 44761

No: 6-101514-115846-0152

Lab: TestAmerica Laboratories, Inc - Sacramento - TALCA

Lab Contact: Robert Weidenfeld

Lab Phone: 916-374-4333

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
E-DU2-SU28	DF6A0	Soil/ Chris VanWart	ISM	Dx/F(21)	6-442593 (Ice to 4C) (1)	E-DU2-SU28	10/22/2014 16:15	Field Sample
E-DU5-SU1	DF6A01	Soil/ Chris VanWart	ISM	Dx/F(21)	6-442594 (Ice to 4C) (1)	E-DU5-SU1	10/27/2014 14:02	Field Sample
E-DU7-SU1	DF6A02	Soil/ Chris VanWart	ISM	Dx/F(21)	6-442595 (Ice to 4C) (1)	E-DU7-SU1	10/23/2014 17:10	Field Sample

Page 13 of 13

Special Instructions: These samples will be collected using the "Incremental Soil Sampling Methodology (ISM)". Special sample preparation is required prior to analysis, the lab must follow prep instructions indicated in MA 2426.0.	**Shipment for Case Complete? Y**
	Samples Transferred From Chain of Custody #
Analysis Key: Dx/F=DLM02.2 and MA # 2426.0	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	[illegible] / EA	10-29-14 / 10:25			