



**Stantec Consulting Services Inc.**  
3875 Atherton Road, Rocklin CA 95765-3716

July 14, 2016

**Attention: Mr. Karl Kurka**  
Environmental Program Manager  
City of Sacramento  
General Services  
915 I Street, 2<sup>nd</sup> Floor  
Sacramento, CA 95814

Dear Mr. Kurka,

**Reference: Interim Task 1 Site Data Report, City of Sacramento Mangan Pistol and Rifle Range, 2140 34<sup>th</sup> Avenue, Sacramento, CA**

Stantec Consulting Services, Inc. (Stantec) has prepared this *Interim Task 1 Site Data Report* (Report) for the City of Sacramento Mangan Pistol and Rifle Range located at 2140 34<sup>th</sup> Avenue, Sacramento, California (the Site). This report presents preliminary data collected during completion of investigation activities described under Task 1 in the *Revised Site Characterization Work Plan* (Work Plan) prepared by Stantec and dated June 16, 2016. Task 1 investigation activities consisted of collecting surface soil data from portions of Mangan Park surrounding the gun range, and investigation of the storm drain lateral present beneath the parking lot south of the building. The Site location is illustrated on Figure 1, and the Site and vicinity are illustrated on Figure 2. The Work Plan was approved by County of Sacramento Environmental Management Department (Sacramento EMD) in correspondence dated June 22, 2016.

### **Task 1 Investigation Procedures**

The following sections describe soil sampling and storm drain investigation activities as proposed in the Work Plan.

#### *Onsite Sampling Procedures and Results*

On June 23 and 24, 2016, Stantec collected 53 surface soil samples from locations identified in the Work Plan. Forty-nine samples were located using a systematic sampling grid overlain on the gun range building and adjacent park space east and west of the building. An additional four samples were located south and east of the swimming pool complex located east of the gun range. The location of the swimming pool relative to the gun range is illustrated on Figure 2, and soil sample locations (with lead concentrations) are illustrated on Figures 3 and 4.

Soil samples were collected by a California Department of Public Health (CDPH) Lead Related Construction Sampling Technician, working under the guidance of a CDPH Lead Related Construction Inspector/Assessor. Samples were collected by scraping away the turf in an approximately five centimeter (cm) by five cm area, and collecting soil no deeper than one-inch

**Design with community in mind**



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**Reference: Interim Task 1 Site Data Report, City of Sacramento Mangan Pistol and Rifle Range, 2140 34<sup>th</sup> Avenue, Sacramento, CA**

using a steel trowel that was decontaminated between samples using liquid soap and potable water rinse. Samples collected from locations 49, 50, 57, 58, 64, and 65 were sieved in the field using a Number 60 mesh screen which was decontaminated between samples. Due to the slow process of field sieving and decontamination procedures, Stantec opted to have the remaining soil samples sieved by the laboratory. During sample collection, Stantec removed non-soil material (i.e. grass, leaves, root material, etc.) prior to depositing the soil into the sample collection jar. New nitrile gloves were donned prior to collecting each sample to minimize the potential for cross contamination. Samples were collected in laboratory-supplied sample containers, labeled, and shipped to Pace Analytical in Davis, California under chain of custody. Samples were analyzed for total lead using EPA Method 6010B after sieving using a Number 60 mesh screen. Complete laboratory reports and chain of custody records are attached. Lead results are presented in Table 1, and depicted graphically on Figures 3 and 4.

As described in the Work Plan and as depicted on Figure 3, soil sampling areas were divided into three 'exposure areas' designed to segregate data populations between areas which may have different exposure assumptions. During this phase of investigation, lead concentrations were compared to the screening criterion of 80 milligrams per kilogram (mg/kg), which corresponds to the residential soil screening level established by Department of Toxic Substances Control (DTSC), and is also the proposed interim remediation goal for soil remediation in the immediate vicinity of the gun range building. Lead concentrations exceeding 80 mg/kg are illustrated on Figure 3. Lead concentrations in the three exposure areas are summarized below.

- **Exposure Unit 1** corresponds to the archery range and soccer field located west of the gun range building. Twenty samples were collected, with lead concentrations ranging from 18.1 to 248 mg/kg. Samples from four locations exceeded 80 mg/kg.
- **Exposure Unit 2** includes the gun range building and surrounding turf, landscaping, and hardscape areas. Fourteen samples were collected, with lead concentrations ranging from 25.0 to 699 mg/kg. Samples from six locations exceeded 80 mg/kg.
- **Exposure Unit 3** corresponds to the park area east of the gun range, including four samples collected from the pool area. Nineteen samples were collected, with lead concentrations ranging from 15.5 to 198 mg/kg. A sample from one location exceeded 80 mg/kg.

The highest concentration of lead reported during the investigation was in a sample collected from Exposure Unit 2 (699 mg/kg at location 68, adjacent to the northern property line). This location, as well as concentrations of lead above 80 mg/kg at locations 69, 70, and 73 will be removed during proposed remediation of soil and hardscape materials. Proposed remediation activities are described in the *Soil and Hardscape Removal Action Work Plan* dated July 8, 2016, and previously submitted to Sacramento EMD.



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Mr. Karl Kurka  
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**Reference: Interim Task 1 Site Data Report, City of Sacramento Mangan Pistol and Rifle Range, 2140 34<sup>th</sup> Avenue, Sacramento, CA**

Although samples from four locations in Exposure Unit 1, one location in Exposure Unit 2, and from one location in Exposure Unit 3 exceed the residential screening criteria for lead in soil, concentrations do not exceed the DTSC commercial soil screening level of 320 mg/kg. These sample data will be further evaluated in concert with atmospheric modeling currently being conducted as described under Task 2 of the approved Work Plan.

### Storm Drain Investigation

The Work Plan proposed investigation of the storm drain lateral beneath the parking lot at the rear (south side) of the building. The objective of the investigation was to evaluate the potential for lead-impacted dust or materials to be transmitted along the lateral away from the Site. On June 21, 2016, Stantec contracted with Ground Penetrating Radar Services (GPRS) to advance a remote camera along the length of the lateral. Based on this investigation, the lateral was determined to be approximately four feet below grade at the drain invert within the parking lot, and connects with the main at a manhole located approximately 50 feet to the southwest (see Figure 3). The depth of the storm drain main at this location is approximately 10 feet below grade.

The storm drain line consists of vitrified clay pipe and appears to be in generally good condition, with no observed shifted joints or sections of collapsed pipe. Much of the length of the lateral line is obstructed by sediment, and numerous rootlets were observed infiltrating the walls of the pipe. The camera could not be advanced the entire length of the pipe, and was obstructed approximately 12 feet from the intersection with the manhole. GPRS successfully advanced a smaller sounding device the length of the pipeline, confirming its intersection with the main accessed by the manhole identified on Figure 3.

Based on drawings provided by the City of Sacramento, the storm drain main line runs from east to west across the southern edge of the Site, as illustrated on Figure 3. From the western boundary of Mangan Park, the main line proceeds to the west and outfalls to an open air ditch along the east side of Freeport Boulevard at 35<sup>th</sup> Avenue, approximately 2,000 feet west of the gun range parking lot. Multiple storm drains converge at a sump before discharging via a system of four 30-inch flap gates. The approximate alignment of the storm drain and the discharge point are illustrated on Figure 5. The City of Sacramento Department of Utilities performs regular scheduled maintenance on the storm sewer main, the outfall (Sump 26), and drainage ditch system. Maintenance includes cleaning and removal of debris and sediments which are disposed of at L&D Landfill.

### **Proposed Schedule**

Stantec proposes presenting the results of Task 2 atmospheric modeling, evaluation of lead data collected during this investigation, and subsequent proposed sampling protocols in a report to be submitted to Sacramento EMD by August 5, 2016.



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**Reference: Interim Task 1 Site Data Report, City of Sacramento Mangan Pistol and Rifle Range, 2140 34<sup>th</sup> Avenue, Sacramento, CA**

If you have any questions regarding the work performed, please contact the undersigned.

Regards,

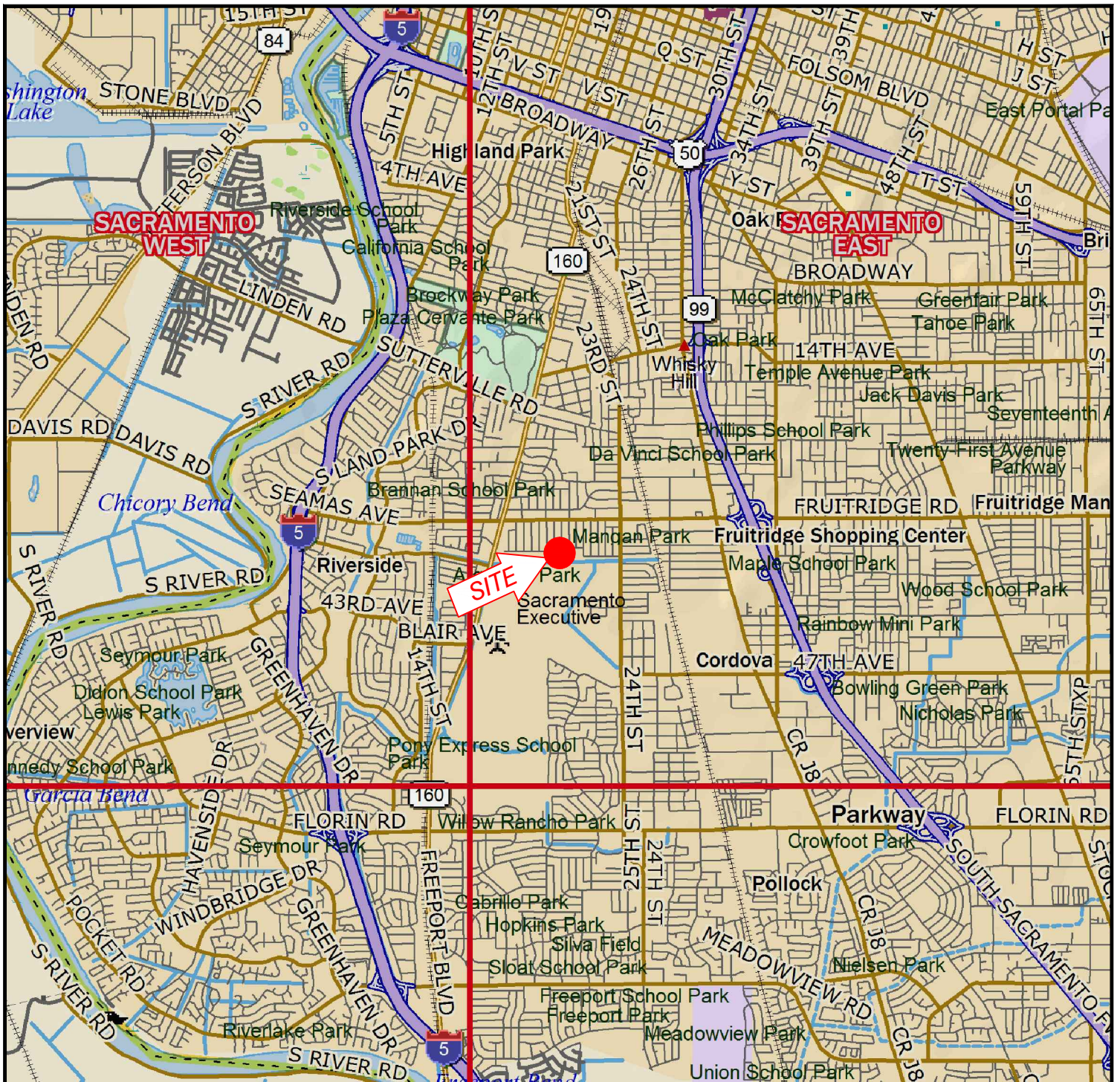
**Stantec Consulting Services Inc.**

Neil Doran, P.G.  
Senior Geologist  
Phone: (916) 472-3933  
[Neil.Doran@stantec.com](mailto:Neil.Doran@stantec.com)

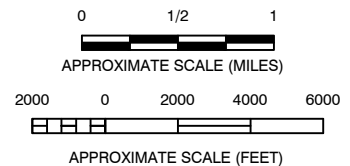
Danielle Manning  
Project Manager  
Phone: (916) 472-3926  
[danielle.manning@stantec.com](mailto:danielle.manning@stantec.com)

Attachment: Figure 1 – Site Location Map  
Figure 2 – Site Plan and Vicinity Map  
Figure 3 – Soil Sample Locations with Lead Concentrations  
Figure 4 – Soil Sample Locations and Lead Concentrations Adjacent to Pool  
Figure 5 – Storm Drain Detail  
Table 1 – Lead Soil Data  
Laboratory Reports and Chain of Custody Records

dn document2




CALIFORNIA



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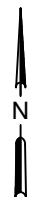
REFERENCE: DELORME TOPO MAP, SACRAMENTO EAST, CALIFORNIA

	FOR: CITY OF SACRAMENTO MANGAN PARK MANGAN PISTOL & RIFLE RANGE 2140 34th AVENUE SACRAMENTO, CA 95822-3157			FIGURE: <b>1</b>	
	JOB NUMBER: 185850411.500.1118	DRAWN BY: STA	CHECKED BY: CEA	APPROVED BY: NHD	DATE: 05/16/16



**LEGEND**

----- MANGAN PARK PROPERTY LINE (APPROXIMATE)



0 100 200



APPROXIMATE SCALE IN FEET

REFERENCE: THIS MAP IS BASED ON GOOGLE EARTH AERIAL IMAGE.

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FOR: CITY OF SACRAMENTO  
MANGAN PARK  
MANGAN PISTOL & RIFLE RANGE  
2140 34th AVENUE  
SACRAMENTO, CA 95822-3157

**SITE PLAN AND VICINITY MAP**

FIGURE:  
**2**

JOB NUMBER:  
185850411.500.1118

DRAWN BY:  
STA

CHECKED BY:  
CEA

APPROVED BY:  
NHD

DATE:  
05/16/16



**LEGEND**

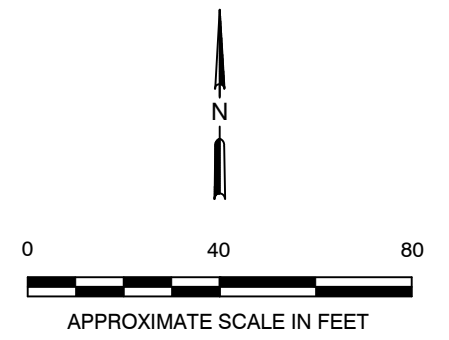
- SAMPLE LOCATION
- SAMPLE ID
- LEAD CONCENTRATION IN SOIL (mg/kg)

mg/kg MILLIGRAM PER KILOGRAM

NOTE: SOIL SAMPLES COLLECTED FROM UPPER 1 INCH OF SOIL

**HIGHLIGHTED** CONCENTRATION ABOVE 80.0 mg/kg

- STORM DRAIN SUMP
- STORM DRAIN LATERAL (APPROXIMATE 4ft BELOW GRADE)
- STORM DRAIN (APPROXIMATE 10ft BELOW GRADE)




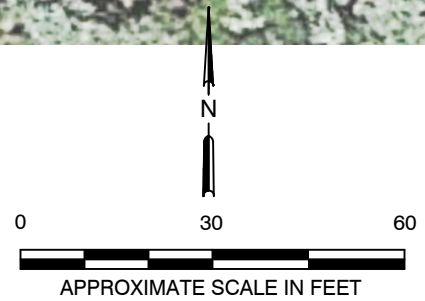
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	FOR: CITY OF SACRAMENTO MANGAN PARK MANGAN PISTOL & RIFLE RANGE 2140 34th AVENUE SACRAMENTO, CA 95822-3157	<b>SOIL SAMPLE LOCATIONS WITH LEAD CONCENTRATIONS</b>		FIGURE:
	JOB NUMBER: 185703375			DRAWN BY: STA



**LEGEND**

-  SAMPLE LOCATION
- 20.7 LEAD CONCENTRATION IN SOIL (mg/kg)
- mg/kg MILLIGRAM PER KILOGRAM



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FOR:  
 CITY OF SACRAMENTO  
 MANGAN PARK  
 MANGAN PISTOL & RIFLE RANGE  
 2140 34th AVENUE  
 SACRAMENTO, CA 95822-3157

**SOIL SAMPLE LOCATIONS  
 AND LEAD  
 CONCENTRATIONS  
 ADJACENT TO POOL**

FIGURE:  
**4**

JOB NUMBER:  
 185703375

DRAWN BY:  
 STA

CHECKED BY:  
 DM

APPROVED BY:  
 NHD

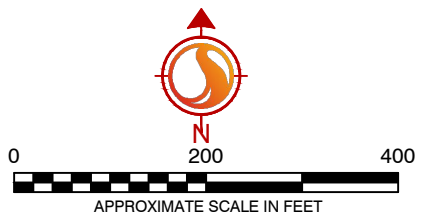
DATE:  
 06/07/16





- LEGEND**
- PROPERTY BOUNDARY
  - STORM DRAIN SUMP
  - - - - - STORM DRAIN LATERAL (APPROXIMATE 4ft BELOW GRADE)
  - SD — STORM DRAIN (APPROXIMATE 10ft BELOW GRADE)

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	FOR: CITY OF SACRAMENTO MANGAN PARK MANGAN PISTOL & RIFLE RANGE 2140 34th AVENUE SACRAMENTO, CA 95822-3157		<b>STORM DRAIN DETAIL</b>		FIGURE: <b>5</b>
	JOB NUMBER: 185703375	DRAWN BY: STA	CHECKED BY: DM	APPROVED BY: NHD	DATE: 06/07/16

Table 1 - Lead Soil Data  
City of Sacramento Mangan Pistol and Rifle Range  
2140 34th Avenue, Sacramento, California

Sample ID	Sample Date	Sampled By	Sample Depth (Below Grade)	Lead (mg/kg)
EU1-46	6/24/2016	Stantec	0 - 1"	29.8
EU1-47	6/23/2016	Stantec	0 - 1"	20.6
EU1-48	6/23/2016	Stantec	0 - 1"	28.0
EU1-49	6/23/2016	Stantec	0 - 1"	40.0
EU1-50	6/23/2016	Stantec	0 - 1"	118
EU1-51	6/23/2016	Stantec	0 - 1"	20.7
EU1-52	6/23/2016	Stantec	0 - 1"	20.9
EU1-53	6/24/2016	Stantec	0 - 1"	27.1
EU1-54	6/24/2016	Stantec	0 - 1"	34.1
EU1-55	6/23/2016	Stantec	0 - 1"	85.2
EU1-56	6/23/2016	Stantec	0 - 1"	47.9
EU1-57	6/23/2016	Stantec	0 - 1"	35.5
EU1-58	6/23/2016	Stantec	0 - 1"	248
EU1-59	6/23/2016	Stantec	0 - 1"	27.2
EU1-60	6/24/2016	Stantec	0 - 1"	18.1
EU1-61	6/24/2016	Stantec	0 - 1"	18.1
EU1-62	6/24/2016	Stantec	0 - 1"	19.4
EU1-63	6/24/2016	Stantec	0 - 1"	35.8
EU1-64	6/23/2016	Stantec	0 - 1"	33.2
EU1-65	6/23/2016	Stantec	0 - 1"	213
EU2-66	6/24/2016	Stantec	0 - 1"	74.2
EU2-67	6/24/2016	Stantec	0 - 1"	115
EU2-68	6/24/2016	Stantec	0 - 1"	699
EU2-69	6/24/2016	Stantec	0 - 1"	239
EU2-70	6/24/2016	Stantec	0 - 1"	103
EU2-71	6/24/2016	Stantec	0 - 1"	36.6
EU2-72	6/24/2016	Stantec	0 - 1"	35.8
EU2-73	6/24/2016	Stantec	0 - 1"	126
EU2-74	6/24/2016	Stantec	0 - 1"	68.7
EU2-75	6/24/2016	Stantec	0 - 1"	25.0
EU2-76	6/24/2016	Stantec	0 - 1"	85.1
EU2-77	6/24/2016	Stantec	0 - 1"	40.7
EU2-78	6/24/2016	Stantec	0 - 1"	42.7
EU2-79	6/24/2016	Stantec	0 - 1"	36.5
EU3-80	6/24/2016	Stantec	0 - 1"	74.2
EU3-81	6/24/2016	Stantec	0 - 1"	60.2
EU3-82	6/24/2016	Stantec	0 - 1"	28.5
EU3-83	6/24/2016	Stantec	0 - 1"	198
EU3-84	6/24/2016	Stantec	0 - 1"	25.3
EU3-85	6/24/2016	Stantec	0 - 1"	42.7
EU3-86	6/24/2016	Stantec	0 - 1"	37.5

Table 1 - Lead Soil Data  
 City of Sacramento Mangan Pistol and Rifle Range  
 2140 34th Avenue, Sacramento, California

Sample ID	Sample Date	Sampled By	Sample Depth (Below Grade)	Lead (mg/kg)
EU3-87	6/24/2016	Stantec	0 - 1"	21.6
EU3-88	6/24/2016	Stantec	0 - 1"	22.5
EU3-89	6/24/2016	Stantec	0 - 1"	15.5
EU3-90	6/24/2016	Stantec	0 - 1"	29.5
EU3-91	6/24/2016	Stantec	0 - 1"	17.6
EU3-92	6/24/2016	Stantec	0 - 1"	24.2
EU3-93	6/24/2016	Stantec	0 - 1"	51.6
EU3-94	6/24/2016	Stantec	0 - 1"	20.2
Soil 95	6/24/2016	Stantec	0 - 1"	49.6
Soil 96	6/24/2016	Stantec	0 - 1"	20.2
Soil 97	6/24/2016	Stantec	0 - 1"	42.5
Soil 98	6/24/2016	Stantec	0 - 1"	17.9

Notes:

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mg/kg - milligrams per kilogram

Samples analyzed by Pace Analytical using EPA Method 6010B.

Samples were sieved by the lab using a No. 60 mesh screen prior to analysis, with the exception of samples EU1-49, EU1-50, EU1-57, EU1-58, EU1-65, and EU1-64, which were sieved in the field using a No. 60 mesh screen.

July 08, 2016

Neil Doran  
Stantec Consulting Services  
3875 Atherton Road  
Rocklin, CA 95765

RE: Project: Mangan Sacramento  
Pace Project No.: 1269161

Dear Neil Doran:

Enclosed are the analytical results for sample(s) received by the laboratory on June 27, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



LeeAnn Heathcote  
leeann.heathcote@pacelabs.com  
Project Manager

Enclosures

cc: Danielle Manning, Stantec Consulting Services  
Data Dept for EDDs, Stantec



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Mangan Sacramento

Pace Project No.: 1269161

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### Davis Certification IDs

2795 Second Street Suite 300 Davis, CA 95618

North Dakota Certification #: R-214

Oregon Certification #: CA300002

Washington Certification #: C926-15a

California Certification #: 08263CA

Minnesota Department of Health Certification #: 006-999-465

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Mangan Sacramento

Pace Project No.: 1269161

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1269161001	EU1-60	Solid	06/23/16 14:00	06/27/16 10:10
1269161002	EU1-63	Solid	06/23/16 14:15	06/27/16 10:10
1269161003	EU1-62	Solid	06/23/16 14:29	06/27/16 10:10
1269161004	EU1-61	Solid	06/23/16 14:45	06/27/16 10:10
1269161005	EU1-54	Solid	06/23/16 14:56	06/27/16 10:10
1269161006	EU1-53	Solid	06/23/16 15:10	06/27/16 10:10
1269161007	EU1-46	Solid	06/23/16 15:20	06/27/16 10:10
1269161008	EU3-94	Solid	06/24/16 07:36	06/27/16 10:10
1269161009	EU3-89	Solid	06/24/16 07:55	06/27/16 10:10
1269161010	EU3-88	Solid	06/24/16 08:02	06/27/16 10:10
1269161011	EU3-83	Solid	06/24/16 08:23	06/27/16 10:10
1269161012	EU3-82	Solid	06/24/16 08:27	06/27/16 10:10
1269161013	EU3-81	Solid	06/24/16 08:42	06/27/16 10:10
1269161014	EU3-84	Solid	06/24/16 08:43	06/27/16 10:10
1269161015	EU3-87	Solid	06/24/16 08:53	06/27/16 10:10
1269161016	EU3-90	Solid	06/24/16 08:59	06/27/16 10:10
1269161017	EU3-93	Solid	06/24/16 09:19	06/27/16 10:10
1269161018	EU3-92	Solid	06/24/16 09:38	06/27/16 10:10
1269161019	EU3-91	Solid	06/24/16 09:50	06/27/16 10:10
1269161020	EU3-86	Solid	06/24/16 09:52	06/27/16 10:10
1269161021	EU3-80	Solid	06/24/16 10:08	06/27/16 10:10
1269161022	95 Soil	Solid	06/24/16 10:44	06/27/16 10:10
1269161023	96 Soil	Solid	06/24/16 10:41	06/27/16 10:10
1269161024	97 Soil	Solid	06/24/16 11:03	06/27/16 10:10
1269161025	98 Soil	Solid	06/24/16 11:08	06/27/16 10:10
1269161026	EU2-79	Solid	06/24/16 11:34	06/27/16 10:10
1269161027	EU2-78	Solid	06/24/16 11:37	06/27/16 10:10
1269161028	EU2-77	Solid	06/24/16 11:54	06/27/16 10:10
1269161029	EU2-76	Solid	06/24/16 11:51	06/27/16 10:10
1269161030	EU2-74	Solid	06/24/16 13:16	06/27/16 10:10
1269161031	EU2-75	Solid	06/24/16 13:34	06/27/16 10:10
1269161032	EU2-72	Solid	06/24/16 13:56	06/27/16 10:10
1269161033	EU2-66	Solid	06/24/16 14:17	06/27/16 10:10
1269161034	EU2-71	Solid	06/24/16 14:41	06/27/16 10:10
1269161035	EU2-67	Solid	06/24/16 15:00	06/27/16 10:10
1269161036	EU2-85	Solid	06/24/16 15:14	06/27/16 10:10
1269161037	EU2-68	Solid	06/24/16 15:21	06/27/16 10:10

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Mangan Sacramento

Pace Project No.: 1269161

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Lab ID	Sample ID	Matrix	Date Collected	Date Received
1269161038	EU2-73	Solid	06/24/16 15:24	06/27/16 10:10
1269161039	EU2-69	Solid	06/24/16 15:42	06/27/16 10:10
1269161040	EU2-70	Solid	06/24/16 15:32	06/27/16 10:10

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Mangan Sacramento  
Pace Project No.: 1269161

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
1269161001	EU1-60	EPA 6010B	JLL	1	PASI-DAV
1269161002	EU1-63	EPA 6010B	JLL	1	PASI-DAV
1269161003	EU1-62	EPA 6010B	JLL	1	PASI-DAV
1269161004	EU1-61	EPA 6010B	JLL	1	PASI-DAV
1269161005	EU1-54	EPA 6010B	JLL	1	PASI-DAV
1269161006	EU1-53	EPA 6010B	JLL	1	PASI-DAV
1269161007	EU1-46	EPA 6010B	JLL	1	PASI-DAV
1269161008	EU3-94	EPA 6010B	JLL	1	PASI-DAV
1269161009	EU3-89	EPA 6010B	JLL	1	PASI-DAV
1269161010	EU3-88	EPA 6010B	JLL	1	PASI-DAV
1269161011	EU3-83	EPA 6010B	JLL	1	PASI-DAV
1269161012	EU3-82	EPA 6010B	JLL	1	PASI-DAV
1269161013	EU3-81	EPA 6010B	JLL	1	PASI-DAV
1269161014	EU3-84	EPA 6010B	JLL	1	PASI-DAV
1269161015	EU3-87	EPA 6010B	JLL	1	PASI-DAV
1269161016	EU3-90	EPA 6010B	JLL	1	PASI-DAV
1269161017	EU3-93	EPA 6010B	JLL	1	PASI-DAV
1269161018	EU3-92	EPA 6010B	JLL	1	PASI-DAV
1269161019	EU3-91	EPA 6010B	JLL	1	PASI-DAV
1269161020	EU3-86	EPA 6010B	JLL	1	PASI-DAV
1269161021	EU3-80	EPA 6010B	JLL	1	PASI-DAV
1269161022	95 Soil	EPA 6010B	JLL	1	PASI-DAV
1269161023	96 Soil	EPA 6010B	JLL	1	PASI-DAV
1269161024	97 Soil	EPA 6010B	JLL	1	PASI-DAV
1269161025	98 Soil	EPA 6010B	JLL	1	PASI-DAV
1269161026	EU2-79	EPA 6010B	JLL	1	PASI-DAV
1269161027	EU2-78	EPA 6010B	JLL	1	PASI-DAV
1269161028	EU2-77	EPA 6010B	JLL	1	PASI-DAV
1269161029	EU2-76	EPA 6010B	JLL	1	PASI-DAV
1269161030	EU2-74	EPA 6010B	JLL	1	PASI-DAV
1269161031	EU2-75	EPA 6010B	JLL	1	PASI-DAV
1269161032	EU2-72	EPA 6010B	JLL	1	PASI-DAV
1269161033	EU2-66	EPA 6010B	JLL	1	PASI-DAV
1269161034	EU2-71	EPA 6010B	JLL	1	PASI-DAV
1269161035	EU2-67	EPA 6010B	JLL	1	PASI-DAV
1269161036	EU2-85	EPA 6010B	JLL	1	PASI-DAV
1269161037	EU2-68	EPA 6010B	JLL	1	PASI-DAV

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Mangan Sacramento

Pace Project No.: 1269161

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Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
1269161038	EU2-73	EPA 6010B	JLL	1	PASI-DAV
1269161039	EU2-69	EPA 6010B	JLL	1	PASI-DAV
1269161040	EU2-70	EPA 6010B	JLL	1	PASI-DAV

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### SUMMARY OF DETECTION

Project: Mangan Sacramento

Pace Project No.: 1269161

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>1269161001</b>	<b>EU1-60</b>					
EPA 6010B	Lead	18.1	mg/kg	0.50	07/07/16 13:28	
<b>1269161002</b>	<b>EU1-63</b>					
EPA 6010B	Lead	35.8	mg/kg	0.50	07/07/16 13:38	
<b>1269161003</b>	<b>EU1-62</b>					
EPA 6010B	Lead	19.4	mg/kg	0.48	07/07/16 13:41	
<b>1269161004</b>	<b>EU1-61</b>					
EPA 6010B	Lead	18.1	mg/kg	0.47	07/07/16 13:52	
<b>1269161005</b>	<b>EU1-54</b>					
EPA 6010B	Lead	34.1	mg/kg	0.48	07/07/16 13:55	
<b>1269161006</b>	<b>EU1-53</b>					
EPA 6010B	Lead	27.1	mg/kg	0.45	07/07/16 13:58	
<b>1269161007</b>	<b>EU1-46</b>					
EPA 6010B	Lead	29.8	mg/kg	0.48	07/07/16 14:02	
<b>1269161008</b>	<b>EU3-94</b>					
EPA 6010B	Lead	20.2	mg/kg	0.50	07/07/16 14:05	
<b>1269161009</b>	<b>EU3-89</b>					
EPA 6010B	Lead	15.5	mg/kg	0.46	07/07/16 14:09	
<b>1269161010</b>	<b>EU3-88</b>					
EPA 6010B	Lead	22.5	mg/kg	0.48	07/07/16 14:12	
<b>1269161011</b>	<b>EU3-83</b>					
EPA 6010B	Lead	198	mg/kg	0.48	07/07/16 14:16	
<b>1269161012</b>	<b>EU3-82</b>					
EPA 6010B	Lead	28.5	mg/kg	0.49	07/07/16 14:19	
<b>1269161013</b>	<b>EU3-81</b>					
EPA 6010B	Lead	60.2	mg/kg	0.50	07/07/16 14:22	
<b>1269161014</b>	<b>EU3-84</b>					
EPA 6010B	Lead	25.3	mg/kg	0.47	07/07/16 14:33	
<b>1269161015</b>	<b>EU3-87</b>					
EPA 6010B	Lead	21.6	mg/kg	0.45	07/07/16 14:36	
<b>1269161016</b>	<b>EU3-90</b>					
EPA 6010B	Lead	29.5	mg/kg	0.50	07/07/16 14:40	
<b>1269161017</b>	<b>EU3-93</b>					
EPA 6010B	Lead	51.6	mg/kg	0.50	07/07/16 14:43	
<b>1269161018</b>	<b>EU3-92</b>					
EPA 6010B	Lead	24.2	mg/kg	0.49	07/07/16 14:46	

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### SUMMARY OF DETECTION

Project: Mangan Sacramento  
Pace Project No.: 1269161

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>1269161019</b>	<b>EU3-91</b>					
EPA 6010B	Lead	17.6	mg/kg	0.50	07/07/16 14:50	
<b>1269161020</b>	<b>EU3-86</b>					
EPA 6010B	Lead	37.5	mg/kg	0.49	07/07/16 14:53	
<b>1269161021</b>	<b>EU3-80</b>					
EPA 6010B	Lead	74.2	mg/kg	0.50	07/07/16 15:03	
<b>1269161022</b>	<b>95 Soil</b>					
EPA 6010B	Lead	49.6	mg/kg	0.50	07/07/16 15:21	
<b>1269161023</b>	<b>96 Soil</b>					
EPA 6010B	Lead	20.2	mg/kg	0.48	07/07/16 15:24	
<b>1269161024</b>	<b>97 Soil</b>					
EPA 6010B	Lead	42.5	mg/kg	0.46	07/07/16 15:27	
<b>1269161025</b>	<b>98 Soil</b>					
EPA 6010B	Lead	17.9	mg/kg	0.49	07/07/16 15:31	
<b>1269161026</b>	<b>EU2-79</b>					
EPA 6010B	Lead	36.5	mg/kg	0.45	07/07/16 15:34	
<b>1269161027</b>	<b>EU2-78</b>					
EPA 6010B	Lead	42.7	mg/kg	0.48	07/07/16 15:38	
<b>1269161028</b>	<b>EU2-77</b>					
EPA 6010B	Lead	40.7	mg/kg	0.48	07/07/16 15:41	
<b>1269161029</b>	<b>EU2-76</b>					
EPA 6010B	Lead	85.1	mg/kg	0.50	07/07/16 15:44	
<b>1269161030</b>	<b>EU2-74</b>					
EPA 6010B	Lead	68.7	mg/kg	0.45	07/07/16 15:55	
<b>1269161031</b>	<b>EU2-75</b>					
EPA 6010B	Lead	25.0	mg/kg	0.47	07/07/16 15:58	
<b>1269161032</b>	<b>EU2-72</b>					
EPA 6010B	Lead	35.8	mg/kg	0.45	07/07/16 16:01	
<b>1269161033</b>	<b>EU2-66</b>					
EPA 6010B	Lead	74.2	mg/kg	0.49	07/07/16 16:05	
<b>1269161034</b>	<b>EU2-71</b>					
EPA 6010B	Lead	36.6	mg/kg	0.45	07/07/16 16:08	
<b>1269161035</b>	<b>EU2-67</b>					
EPA 6010B	Lead	115	mg/kg	0.50	07/07/16 16:12	
<b>1269161036</b>	<b>EU2-85</b>					
EPA 6010B	Lead	42.7	mg/kg	0.50	07/07/16 16:15	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Mangan Sacramento

Pace Project No.: 1269161

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>1269161037</b>	<b>EU2-68</b>					
EPA 6010B	Lead	699	mg/kg	0.50	07/07/16 16:19	
<b>1269161038</b>	<b>EU2-73</b>					
EPA 6010B	Lead	126	mg/kg	0.46	07/07/16 16:22	
<b>1269161039</b>	<b>EU2-69</b>					
EPA 6010B	Lead	239	mg/kg	0.45	07/07/16 16:25	
<b>1269161040</b>	<b>EU2-70</b>					
EPA 6010B	Lead	103	mg/kg	0.49	07/07/16 16:36	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Mangan Sacramento

Pace Project No.: 1269161

**Sample: EU1-60**      **Lab ID: 1269161001**      Collected: 06/23/16 14:00      Received: 06/27/16 10:10      Matrix: Solid  
*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b> Analytical Method: EPA 6010B      Preparation Method: EPA 3050								
Lead	18.1	mg/kg	0.50	1	07/06/16 12:12	07/07/16 13:28	7439-92-1	

**Sample: EU1-63**      **Lab ID: 1269161002**      Collected: 06/23/16 14:15      Received: 06/27/16 10:10      Matrix: Solid  
*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b> Analytical Method: EPA 6010B      Preparation Method: EPA 3050								
Lead	35.8	mg/kg	0.50	1	07/06/16 12:12	07/07/16 13:38	7439-92-1	

**Sample: EU1-62**      **Lab ID: 1269161003**      Collected: 06/23/16 14:29      Received: 06/27/16 10:10      Matrix: Solid  
*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b> Analytical Method: EPA 6010B      Preparation Method: EPA 3050								
Lead	19.4	mg/kg	0.48	1	07/06/16 12:12	07/07/16 13:41	7439-92-1	

**Sample: EU1-61**      **Lab ID: 1269161004**      Collected: 06/23/16 14:45      Received: 06/27/16 10:10      Matrix: Solid  
*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b> Analytical Method: EPA 6010B      Preparation Method: EPA 3050								
Lead	18.1	mg/kg	0.47	1	07/06/16 12:12	07/07/16 13:52	7439-92-1	

**Sample: EU1-54**      **Lab ID: 1269161005**      Collected: 06/23/16 14:56      Received: 06/27/16 10:10      Matrix: Solid  
*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b> Analytical Method: EPA 6010B      Preparation Method: EPA 3050								
Lead	34.1	mg/kg	0.48	1	07/06/16 12:12	07/07/16 13:55	7439-92-1	

**Sample: EU1-53**      **Lab ID: 1269161006**      Collected: 06/23/16 15:10      Received: 06/27/16 10:10      Matrix: Solid  
*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b> Analytical Method: EPA 6010B      Preparation Method: EPA 3050								
Lead	27.1	mg/kg	0.45	1	07/06/16 12:12	07/07/16 13:58	7439-92-1	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Mangan Sacramento  
Pace Project No.: 1269161

**Sample: EU1-46**      **Lab ID: 1269161007**      Collected: 06/23/16 15:20      Received: 06/27/16 10:10      Matrix: Solid  
*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b> Analytical Method: EPA 6010B      Preparation Method: EPA 3050								
Lead	<b>29.8</b>	mg/kg	0.48	1	07/06/16 12:12	07/07/16 14:02	7439-92-1	

**Sample: EU3-94**      **Lab ID: 1269161008**      Collected: 06/24/16 07:36      Received: 06/27/16 10:10      Matrix: Solid  
*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b> Analytical Method: EPA 6010B      Preparation Method: EPA 3050								
Lead	<b>20.2</b>	mg/kg	0.50	1	07/06/16 12:12	07/07/16 14:05	7439-92-1	

**Sample: EU3-89**      **Lab ID: 1269161009**      Collected: 06/24/16 07:55      Received: 06/27/16 10:10      Matrix: Solid  
*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b> Analytical Method: EPA 6010B      Preparation Method: EPA 3050								
Lead	<b>15.5</b>	mg/kg	0.46	1	07/06/16 12:12	07/07/16 14:09	7439-92-1	

**Sample: EU3-88**      **Lab ID: 1269161010**      Collected: 06/24/16 08:02      Received: 06/27/16 10:10      Matrix: Solid  
*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b> Analytical Method: EPA 6010B      Preparation Method: EPA 3050								
Lead	<b>22.5</b>	mg/kg	0.48	1	07/06/16 12:12	07/07/16 14:12	7439-92-1	

**Sample: EU3-83**      **Lab ID: 1269161011**      Collected: 06/24/16 08:23      Received: 06/27/16 10:10      Matrix: Solid  
*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b> Analytical Method: EPA 6010B      Preparation Method: EPA 3050								
Lead	<b>198</b>	mg/kg	0.48	1	07/06/16 12:12	07/07/16 14:16	7439-92-1	

**Sample: EU3-82**      **Lab ID: 1269161012**      Collected: 06/24/16 08:27      Received: 06/27/16 10:10      Matrix: Solid  
*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b> Analytical Method: EPA 6010B      Preparation Method: EPA 3050								
Lead	<b>28.5</b>	mg/kg	0.49	1	07/06/16 12:12	07/07/16 14:19	7439-92-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Mangan Sacramento  
Pace Project No.: 1269161

**Sample: EU3-81**      **Lab ID: 1269161013**      Collected: 06/24/16 08:42      Received: 06/27/16 10:10      Matrix: Solid  
*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b> Analytical Method: EPA 6010B      Preparation Method: EPA 3050								
Lead	<b>60.2</b>	mg/kg	0.50	1	07/06/16 12:12	07/07/16 14:22	7439-92-1	

**Sample: EU3-84**      **Lab ID: 1269161014**      Collected: 06/24/16 08:43      Received: 06/27/16 10:10      Matrix: Solid  
*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b> Analytical Method: EPA 6010B      Preparation Method: EPA 3050								
Lead	<b>25.3</b>	mg/kg	0.47	1	07/06/16 12:12	07/07/16 14:33	7439-92-1	

**Sample: EU3-87**      **Lab ID: 1269161015**      Collected: 06/24/16 08:53      Received: 06/27/16 10:10      Matrix: Solid  
*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b> Analytical Method: EPA 6010B      Preparation Method: EPA 3050								
Lead	<b>21.6</b>	mg/kg	0.45	1	07/06/16 12:12	07/07/16 14:36	7439-92-1	

**Sample: EU3-90**      **Lab ID: 1269161016**      Collected: 06/24/16 08:59      Received: 06/27/16 10:10      Matrix: Solid  
*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b> Analytical Method: EPA 6010B      Preparation Method: EPA 3050								
Lead	<b>29.5</b>	mg/kg	0.50	1	07/06/16 12:12	07/07/16 14:40	7439-92-1	

**Sample: EU3-93**      **Lab ID: 1269161017**      Collected: 06/24/16 09:19      Received: 06/27/16 10:10      Matrix: Solid  
*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b> Analytical Method: EPA 6010B      Preparation Method: EPA 3050								
Lead	<b>51.6</b>	mg/kg	0.50	1	07/06/16 12:12	07/07/16 14:43	7439-92-1	

**Sample: EU3-92**      **Lab ID: 1269161018**      Collected: 06/24/16 09:38      Received: 06/27/16 10:10      Matrix: Solid  
*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b> Analytical Method: EPA 6010B      Preparation Method: EPA 3050								
Lead	<b>24.2</b>	mg/kg	0.49	1	07/06/16 12:12	07/07/16 14:46	7439-92-1	

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### ANALYTICAL RESULTS

Project: Mangan Sacramento

Pace Project No.: 1269161

**Sample: EU3-91**      **Lab ID: 1269161019**      Collected: 06/24/16 09:50      Received: 06/27/16 10:10      Matrix: Solid  
*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b> Analytical Method: EPA 6010B      Preparation Method: EPA 3050								
Lead	17.6	mg/kg	0.50	1	07/06/16 12:12	07/07/16 14:50	7439-92-1	

**Sample: EU3-86**      **Lab ID: 1269161020**      Collected: 06/24/16 09:52      Received: 06/27/16 10:10      Matrix: Solid  
*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b> Analytical Method: EPA 6010B      Preparation Method: EPA 3050								
Lead	37.5	mg/kg	0.49	1	07/06/16 12:12	07/07/16 14:53	7439-92-1	

**Sample: EU3-80**      **Lab ID: 1269161021**      Collected: 06/24/16 10:08      Received: 06/27/16 10:10      Matrix: Solid  
*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b> Analytical Method: EPA 6010B      Preparation Method: EPA 3050								
Lead	74.2	mg/kg	0.50	1	07/06/16 12:38	07/07/16 15:03	7439-92-1	

**Sample: 95 Soil**      **Lab ID: 1269161022**      Collected: 06/24/16 10:44      Received: 06/27/16 10:10      Matrix: Solid  
*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b> Analytical Method: EPA 6010B      Preparation Method: EPA 3050								
Lead	49.6	mg/kg	0.50	1	07/06/16 12:38	07/07/16 15:21	7439-92-1	

**Sample: 96 Soil**      **Lab ID: 1269161023**      Collected: 06/24/16 10:41      Received: 06/27/16 10:10      Matrix: Solid  
*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b> Analytical Method: EPA 6010B      Preparation Method: EPA 3050								
Lead	20.2	mg/kg	0.48	1	07/06/16 12:38	07/07/16 15:24	7439-92-1	

**Sample: 97 Soil**      **Lab ID: 1269161024**      Collected: 06/24/16 11:03      Received: 06/27/16 10:10      Matrix: Solid  
*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b> Analytical Method: EPA 6010B      Preparation Method: EPA 3050								
Lead	42.5	mg/kg	0.46	1	07/06/16 12:38	07/07/16 15:27	7439-92-1	

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## ANALYTICAL RESULTS

Project: Mangan Sacramento

Pace Project No.: 1269161

**Sample: 98 Soil**      **Lab ID: 1269161025**      Collected: 06/24/16 11:08      Received: 06/27/16 10:10      Matrix: Solid

*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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**6010 MET ICP**      Analytical Method: EPA 6010B      Preparation Method: EPA 3050

Lead	<b>17.9</b>	mg/kg	0.49	1	07/06/16 12:38	07/07/16 15:31	7439-92-1	
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**Sample: EU2-79**      **Lab ID: 1269161026**      Collected: 06/24/16 11:34      Received: 06/27/16 10:10      Matrix: Solid

*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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**6010 MET ICP**      Analytical Method: EPA 6010B      Preparation Method: EPA 3050

Lead	<b>36.5</b>	mg/kg	0.45	1	07/06/16 12:38	07/07/16 15:34	7439-92-1	
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**Sample: EU2-78**      **Lab ID: 1269161027**      Collected: 06/24/16 11:37      Received: 06/27/16 10:10      Matrix: Solid

*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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**6010 MET ICP**      Analytical Method: EPA 6010B      Preparation Method: EPA 3050

Lead	<b>42.7</b>	mg/kg	0.48	1	07/06/16 12:38	07/07/16 15:38	7439-92-1	
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**Sample: EU2-77**      **Lab ID: 1269161028**      Collected: 06/24/16 11:54      Received: 06/27/16 10:10      Matrix: Solid

*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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**6010 MET ICP**      Analytical Method: EPA 6010B      Preparation Method: EPA 3050

Lead	<b>40.7</b>	mg/kg	0.48	1	07/06/16 12:38	07/07/16 15:41	7439-92-1	
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**Sample: EU2-76**      **Lab ID: 1269161029**      Collected: 06/24/16 11:51      Received: 06/27/16 10:10      Matrix: Solid

*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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**6010 MET ICP**      Analytical Method: EPA 6010B      Preparation Method: EPA 3050

Lead	<b>85.1</b>	mg/kg	0.50	1	07/06/16 12:38	07/07/16 15:44	7439-92-1	
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**Sample: EU2-74**      **Lab ID: 1269161030**      Collected: 06/24/16 13:16      Received: 06/27/16 10:10      Matrix: Solid

*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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**6010 MET ICP**      Analytical Method: EPA 6010B      Preparation Method: EPA 3050

Lead	<b>68.7</b>	mg/kg	0.45	1	07/06/16 12:38	07/07/16 15:55	7439-92-1	
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## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Mangan Sacramento

Pace Project No.: 1269161

**Sample: EU2-75**      **Lab ID: 1269161031**      Collected: 06/24/16 13:34      Received: 06/27/16 10:10      Matrix: Solid

*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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**6010 MET ICP**      Analytical Method: EPA 6010B      Preparation Method: EPA 3050

Lead	<b>25.0</b>	mg/kg	0.47	1	07/06/16 12:38	07/07/16 15:58	7439-92-1	
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**Sample: EU2-72**      **Lab ID: 1269161032**      Collected: 06/24/16 13:56      Received: 06/27/16 10:10      Matrix: Solid

*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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**6010 MET ICP**      Analytical Method: EPA 6010B      Preparation Method: EPA 3050

Lead	<b>35.8</b>	mg/kg	0.45	1	07/06/16 12:38	07/07/16 16:01	7439-92-1	
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**Sample: EU2-66**      **Lab ID: 1269161033**      Collected: 06/24/16 14:17      Received: 06/27/16 10:10      Matrix: Solid

*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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**6010 MET ICP**      Analytical Method: EPA 6010B      Preparation Method: EPA 3050

Lead	<b>74.2</b>	mg/kg	0.49	1	07/06/16 12:38	07/07/16 16:05	7439-92-1	
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**Sample: EU2-71**      **Lab ID: 1269161034**      Collected: 06/24/16 14:41      Received: 06/27/16 10:10      Matrix: Solid

*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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**6010 MET ICP**      Analytical Method: EPA 6010B      Preparation Method: EPA 3050

Lead	<b>36.6</b>	mg/kg	0.45	1	07/06/16 12:38	07/07/16 16:08	7439-92-1	
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**Sample: EU2-67**      **Lab ID: 1269161035**      Collected: 06/24/16 15:00      Received: 06/27/16 10:10      Matrix: Solid

*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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**6010 MET ICP**      Analytical Method: EPA 6010B      Preparation Method: EPA 3050

Lead	<b>115</b>	mg/kg	0.50	1	07/06/16 12:38	07/07/16 16:12	7439-92-1	
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**Sample: EU2-85**      **Lab ID: 1269161036**      Collected: 06/24/16 15:14      Received: 06/27/16 10:10      Matrix: Solid

*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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**6010 MET ICP**      Analytical Method: EPA 6010B      Preparation Method: EPA 3050

Lead	<b>42.7</b>	mg/kg	0.50	1	07/06/16 12:38	07/07/16 16:15	7439-92-1	
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### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Mangan Sacramento  
Pace Project No.: 1269161

**Sample: EU2-68**      **Lab ID: 1269161037**      Collected: 06/24/16 15:21      Received: 06/27/16 10:10      Matrix: Solid  
*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b> Analytical Method: EPA 6010B      Preparation Method: EPA 3050								
Lead	<b>699</b>	mg/kg	0.50	1	07/06/16 12:38	07/07/16 16:19	7439-92-1	

**Sample: EU2-73**      **Lab ID: 1269161038**      Collected: 06/24/16 15:24      Received: 06/27/16 10:10      Matrix: Solid  
*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b> Analytical Method: EPA 6010B      Preparation Method: EPA 3050								
Lead	<b>126</b>	mg/kg	0.46	1	07/06/16 12:38	07/07/16 16:22	7439-92-1	

**Sample: EU2-69**      **Lab ID: 1269161039**      Collected: 06/24/16 15:42      Received: 06/27/16 10:10      Matrix: Solid  
*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b> Analytical Method: EPA 6010B      Preparation Method: EPA 3050								
Lead	<b>239</b>	mg/kg	0.45	1	07/06/16 12:38	07/07/16 16:25	7439-92-1	

**Sample: EU2-70**      **Lab ID: 1269161040**      Collected: 06/24/16 15:32      Received: 06/27/16 10:10      Matrix: Solid  
*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b> Analytical Method: EPA 6010B      Preparation Method: EPA 3050								
Lead	<b>103</b>	mg/kg	0.49	1	07/06/16 12:38	07/07/16 16:36	7439-92-1	

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### QUALITY CONTROL DATA

Project: Mangan Sacramento

Pace Project No.: 1269161

QC Batch: DAMP/2077 Analysis Method: EPA 6010B

QC Batch Method: EPA 3050 Analysis Description: 6010 MET

Associated Lab Samples: 1269161001, 1269161002, 1269161003, 1269161004, 1269161005, 1269161006, 1269161007, 1269161008, 1269161009, 1269161010, 1269161011, 1269161012, 1269161013, 1269161014, 1269161015, 1269161016, 1269161017, 1269161018, 1269161019, 1269161020

METHOD BLANK: 339992 Matrix: Solid

Associated Lab Samples: 1269161001, 1269161002, 1269161003, 1269161004, 1269161005, 1269161006, 1269161007, 1269161008, 1269161009, 1269161010, 1269161011, 1269161012, 1269161013, 1269161014, 1269161015, 1269161016, 1269161017, 1269161018, 1269161019, 1269161020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	ND	0.47	07/07/16 13:21	

LABORATORY CONTROL SAMPLE: 339993

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	45.5	48.5	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 339994 339995

Parameter	Units	1269161001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	18.1	49.5	50	63.0	63.5	91	91	75-125	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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### QUALITY CONTROL DATA

Project: Mangan Sacramento

Pace Project No.: 1269161

QC Batch:	DAMP/2078	Analysis Method:	EPA 6010B
QC Batch Method:	EPA 3050	Analysis Description:	6010 MET
Associated Lab Samples:	1269161021, 1269161022, 1269161023, 1269161024, 1269161025, 1269161026, 1269161027, 1269161028, 1269161029, 1269161030, 1269161031, 1269161032, 1269161033, 1269161034, 1269161035, 1269161036, 1269161037, 1269161038, 1269161039, 1269161040		

METHOD BLANK:	339996	Matrix:	Solid
Associated Lab Samples:	1269161021, 1269161022, 1269161023, 1269161024, 1269161025, 1269161026, 1269161027, 1269161028, 1269161029, 1269161030, 1269161031, 1269161032, 1269161033, 1269161034, 1269161035, 1269161036, 1269161037, 1269161038, 1269161039, 1269161040		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	ND	0.49	07/07/16 14:57	

LABORATORY CONTROL SAMPLE:	339997					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	48.1	51.5	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	339998			339999								
Parameter	Units	1269161021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	74.2	49.5	49.5	121	122	95	96	75-125	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: Mangan Sacramento

Pace Project No.: 1269161

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-DAV Pace Analytical Services - Davis

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Mangan Sacramento

Pace Project No.: 1269161

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
1269161001	EU1-60	EPA 3050	DAMP/2077	EPA 6010B	DAMT/2331
1269161002	EU1-63	EPA 3050	DAMP/2077	EPA 6010B	DAMT/2331
1269161003	EU1-62	EPA 3050	DAMP/2077	EPA 6010B	DAMT/2331
1269161004	EU1-61	EPA 3050	DAMP/2077	EPA 6010B	DAMT/2331
1269161005	EU1-54	EPA 3050	DAMP/2077	EPA 6010B	DAMT/2331
1269161006	EU1-53	EPA 3050	DAMP/2077	EPA 6010B	DAMT/2331
1269161007	EU1-46	EPA 3050	DAMP/2077	EPA 6010B	DAMT/2331
1269161008	EU3-94	EPA 3050	DAMP/2077	EPA 6010B	DAMT/2331
1269161009	EU3-89	EPA 3050	DAMP/2077	EPA 6010B	DAMT/2331
1269161010	EU3-88	EPA 3050	DAMP/2077	EPA 6010B	DAMT/2331
1269161011	EU3-83	EPA 3050	DAMP/2077	EPA 6010B	DAMT/2331
1269161012	EU3-82	EPA 3050	DAMP/2077	EPA 6010B	DAMT/2331
1269161013	EU3-81	EPA 3050	DAMP/2077	EPA 6010B	DAMT/2331
1269161014	EU3-84	EPA 3050	DAMP/2077	EPA 6010B	DAMT/2331
1269161015	EU3-87	EPA 3050	DAMP/2077	EPA 6010B	DAMT/2331
1269161016	EU3-90	EPA 3050	DAMP/2077	EPA 6010B	DAMT/2331
1269161017	EU3-93	EPA 3050	DAMP/2077	EPA 6010B	DAMT/2331
1269161018	EU3-92	EPA 3050	DAMP/2077	EPA 6010B	DAMT/2331
1269161019	EU3-91	EPA 3050	DAMP/2077	EPA 6010B	DAMT/2331
1269161020	EU3-86	EPA 3050	DAMP/2077	EPA 6010B	DAMT/2331
1269161021	EU3-80	EPA 3050	DAMP/2078	EPA 6010B	DAMT/2330
1269161022	95 Soil	EPA 3050	DAMP/2078	EPA 6010B	DAMT/2330
1269161023	96 Soil	EPA 3050	DAMP/2078	EPA 6010B	DAMT/2330
1269161024	97 Soil	EPA 3050	DAMP/2078	EPA 6010B	DAMT/2330
1269161025	98 Soil	EPA 3050	DAMP/2078	EPA 6010B	DAMT/2330
1269161026	EU2-79	EPA 3050	DAMP/2078	EPA 6010B	DAMT/2330
1269161027	EU2-78	EPA 3050	DAMP/2078	EPA 6010B	DAMT/2330
1269161028	EU2-77	EPA 3050	DAMP/2078	EPA 6010B	DAMT/2330
1269161029	EU2-76	EPA 3050	DAMP/2078	EPA 6010B	DAMT/2330
1269161030	EU2-74	EPA 3050	DAMP/2078	EPA 6010B	DAMT/2330
1269161031	EU2-75	EPA 3050	DAMP/2078	EPA 6010B	DAMT/2330
1269161032	EU2-72	EPA 3050	DAMP/2078	EPA 6010B	DAMT/2330
1269161033	EU2-66	EPA 3050	DAMP/2078	EPA 6010B	DAMT/2330
1269161034	EU2-71	EPA 3050	DAMP/2078	EPA 6010B	DAMT/2330
1269161035	EU2-67	EPA 3050	DAMP/2078	EPA 6010B	DAMT/2330
1269161036	EU2-85	EPA 3050	DAMP/2078	EPA 6010B	DAMT/2330
1269161037	EU2-68	EPA 3050	DAMP/2078	EPA 6010B	DAMT/2330
1269161038	EU2-73	EPA 3050	DAMP/2078	EPA 6010B	DAMT/2330
1269161039	EU2-69	EPA 3050	DAMP/2078	EPA 6010B	DAMT/2330
1269161040	EU2-70	EPA 3050	DAMP/2078	EPA 6010B	DAMT/2330
1269161001	EU1-60		MT/24416		
1269161002	EU1-63		MT/24416		
1269161003	EU1-62		MT/24416		
1269161004	EU1-61		MT/24416		
1269161005	EU1-54		MT/24416		
1269161006	EU1-53		MT/24416		
1269161007	EU1-46		MT/24416		
1269161008	EU3-94		MT/24416		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Mangan Sacramento

Pace Project No.: 1269161

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
1269161009	EU3-89		MT/24416		
1269161010	EU3-88		MT/24416		
1269161011	EU3-83		MT/24416		
1269161012	EU3-82		MT/24416		
1269161013	EU3-81		MT/24416		
1269161014	EU3-84		MT/24416		
1269161015	EU3-87		MT/24416		
1269161016	EU3-90		MT/24416		
1269161017	EU3-93		MT/24416		
1269161018	EU3-92		MT/24416		
1269161019	EU3-91		MT/24416		
1269161020	EU3-86		MT/24416		
1269161021	EU3-80		MT/24417		
1269161022	95 Soil		MT/24417		
1269161023	96 Soil		MT/24417		
1269161024	97 Soil		MT/24417		
1269161025	98 Soil		MT/24417		
1269161026	EU2-79		MT/24417		
1269161027	EU2-78		MT/24417		
1269161028	EU2-77		MT/24417		
1269161029	EU2-76		MT/24417		
1269161030	EU2-74		MT/24417		
1269161031	EU2-75		MT/24417		
1269161032	EU2-72		MT/24417		
1269161033	EU2-66		MT/24417		
1269161034	EU2-71		MT/24417		
1269161035	EU2-67		MT/24417		
1269161036	EU2-85		MT/24417		
1269161037	EU2-68		MT/24417		
1269161038	EU2-73		MT/24417		
1269161039	EU2-69		MT/24417		
1269161040	EU2-70		MT/24417		

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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 4

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:	
Company: <u>SPINTEL</u>	Report To: _____	Company Name: _____	Attention: _____	REGULATORY AGENCY	
Address: <u>3875 Arnerston Rd</u>	Copy To: _____	Address: _____	Company Name: _____	NPDES	GROUND WATER
City: <u>Rocklin, CA 95765</u>	Purchase Order No.: _____	Address: _____	Address: _____	UST	RCRA
Email: <u>Dei.Ledoran@spintel.com</u>	Project Name: <u>SPC Cameron St Morgan</u>	Address: _____	Address: _____	Site Location	OTHER
Phone: <u>916-472-3935 / 916-773-8948</u>	Project Number: <u>185703375</u>	Address: _____	Address: _____	STATE: <u>CA</u>	
Requested Due Date/TAT: <u>STANDARD</u>		Address: _____	Address: _____		

ITEM #	Section D Required Client Information	Valid Matrix Codes	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	UNPRESERVED	PRESERVATIVES							ANALYSIS TEST	Y/N	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
					DATE	TIME			H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> O <sub>2</sub>	Methanol	Other				
1	EWI-60	DRINKING WATER	SL		06/27/16	14:00	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	1269161	SIEVE SAMPLE 001
1	EWI-63	WASTE WATER	SL		06/27/16	14:15	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	1269161	W/NO. GUMBER 002
1	EWI-62	WASTE WATER	SL		06/27/16	14:29	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	1269161	SCREEN 003
1	EWI-61	WASTE WATER	SL		06/27/16	14:45	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	1269161	SCREEN 004
1	EWI-54	WASTE WATER	SL		06/27/16	14:56	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	1269161	SCREEN 005
1	EWI-53	WASTE WATER	SL		06/27/16	15:10	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	1269161	SCREEN 006
1	EWI-46	WASTE WATER	SL		06/27/16	15:20	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	1269161	SCREEN 007
1	EU3-94	WASTE WATER	SL		06/27/16	07:36	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	1269161	SCREEN 008
1	EU3-89	WASTE WATER	SL		06/27/16	07:55	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	1269161	SCREEN 009
1	EU3-88	WASTE WATER	SL		06/27/16	08:02	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	1269161	SCREEN 010

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
Daniele M		GFC Judge / Pace		6/27/16		8:10		GFC Judge / Pace		6/27/16		08:45		Received on Ice	Y
Daniele M		GFC Judge / Pace		6/27/16		10:06		Daniele M		6/27/16		10:10		Cooler Sealed	Y
Daniele M		GFC Judge / Pace		6/27/16		10:06		Daniele M		6/27/16		10:10		Temp in °C	3.6
Daniele M		GFC Judge / Pace		6/27/16		10:06		Daniele M		6/27/16		10:10		Temp in °C	3.6

Electronic Data Deliverable (EDD):  EQUIS  Excel  WA EIM  Other

State Specific:  CA EDF (Global ID: \_\_\_\_\_)  CA WriteOn (Site: \_\_\_\_\_)

SAMPLER NAME AND SIGNATURE: Daniele M

PRINT Name of SAMPLER: Daniele M

SIGNATURE OF SAMPLER: Daniele M

DATE SIGNED (MM/DD/YYYY): 6/27/16



# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A**  
 Required Client Information:  
 Company: Startec  
 Address: 5875 Athena Blvd  
Cochem, CA 95765  
 Email: del.doran@startec.com  
 Phone: 916-470-3633 Fax: 916-773-8448  
 Requested Due Date/TAT: STANDARD

**Section B**  
 Required Project Information:  
 Report To: \_\_\_\_\_  
 Copy To: \_\_\_\_\_  
 Purchase Order No.: \_\_\_\_\_  
 Project Name: Sacramento Mining  
 Project Number: 18570337

**Section C**  
 Invoice Information:  
 Attention: \_\_\_\_\_  
 Company Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Pace Quote Reference: 28776  
 Pace Project Manager: Lee Ann Heathcote  
 Pace Profile #: \_\_\_\_\_

**REGULATORY AGENCY**  
 NPDES \_\_\_\_\_ GROUND WATER \_\_\_\_\_ DRINKING WATER \_\_\_\_\_  
 UST \_\_\_\_\_ RCRA \_\_\_\_\_ OTHER \_\_\_\_\_  
 Site Location STATE: CA

Page: 28 of 64

ITEM #	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WASTE WATER WW PRODUCT P SOLID S OIL OI AIR AR OTHER OT TISSUE TS	SAMPLE ID (A-Z, 0-9 / -)	SAMPLE TYPE (G-GRAB C-COMP) (see valid codes to left)	COLLECTED		# OF CONTAINERS	PRESERVATIVES H <sub>2</sub> SO <sub>4</sub> HNO <sub>3</sub> HCl NaOH Na <sub>2</sub> S <sub>2</sub> O <sub>8</sub> Methanol Other	ANALYSIS TEST Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
				DATE	TIME						
1		EU3-83	SL	08:24	08:28	1		✓			1269161
1		EU3-82	SL	08:27	08:29	1		✓			SIEVE SAMPLES -01
1		EU3-81	SL	08:42	08:42	1		✓			WINN CO MESH -012
1		EU3-84	SL	08:43	08:43	1		✓			SCREEN -013
1		EU3-87	SL	08:53	08:53	1		✓			-014
1		EU3-90	SL	08:59	08:59	1		✓			-015
1		EU3-93	SL	09:19	09:19	1		✓			-016
1		EU3-92	SL	09:38	09:38	1		✓			-017
1		EU3-91	SL	09:50	09:50	1		✓			-018
1		EU3-86	SL	09:52	09:52	1		✓			-019
											-020

**ADDITIONAL COMMENTS**  
 Relinquished by / Affiliation: Danielle Manning  
 Date: 6/27/16 Time: 08:15  
 Accepted by / Affiliation: Pace Davis  
 Date: 6/27/16 Time: 10:10

**SAMPLE CONDITIONS**  
 Received on Ice (Y/N): \_\_\_\_\_  
 Custody Sealed (Y/N): \_\_\_\_\_  
 Cooler (Y/N): \_\_\_\_\_  
 Samples Intact (Y/N): \_\_\_\_\_

**Electronic Data Deliverable (EDD):**  
 EDD (Excel)  EDD (Word)  EDD (PDF)  
 State Specific:  CA EDF (Global ID: \_\_\_\_\_)  WA EIM  Other \_\_\_\_\_  
 CA WriteOn (Site: \_\_\_\_\_)

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: Danielle Manning  
 SIGNATURE of SAMPLER: Danielle Manning  
 DATE Signed (MM/DD/YYYY): 6/27/16

**CHAIN-OF-CUSTODY / Analytical Request Document**

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 3 of 4

**Section A**  
Required Client Information:  
Report To: STANTEC

**Section B**  
Required Project Information:  
Copy To: \_\_\_\_\_

**Section C**  
Invoice Information:  
Attention: \_\_\_\_\_

Company: STANTEC  
Address: 3875 Atherton Blvd  
Rocklin, CA 95677  
Email: Bill.doran@stntec.ca  
Phone: 916-472-3453 Fax: 916-713-8948  
Requested Due Date/TIME: STANUS ARO

Company Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Pace Project Reference: 28776  
Pace Project Manager: Lee Ann Hawthorne  
Pace Profile #: \_\_\_\_\_

REGULATORY AGENCY:  
NPDES \_\_\_\_\_  
UST \_\_\_\_\_  
GROUND WATER \_\_\_\_\_  
RCRA \_\_\_\_\_  
DRINKING WATER \_\_\_\_\_  
OTHER \_\_\_\_\_  
Site Location: \_\_\_\_\_  
STATE: CA

ITEM #	Section D Required Client Information		Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID S OIL OL WIFE WP AIR AT TUBER T TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE TIME	# OF CONTAINERS	Unpreserved H <sub>2</sub> O <sub>2</sub> HNO <sub>3</sub> HCl NaOH Na <sub>2</sub> S <sub>2</sub> O <sub>8</sub> Methanol Other	Analysis Test Y/N	Requested Analysis Filtered (Y/N)	Temp in °C	Received on Ice (Y/N)	Custody Sealed (Cooler Y/N)	Samples Intact (Y/N)	
	SAMPLE ID (A-Z, 0-9 / - ) Sample IDs MUST BE UNIQUE	RESIDUAL CHLORINE (Y/N)													
1		EU3-80		SL		6/24/10 10:08	1	✓							
2		95 Soil		SL		6/24/10 10:44	1	✓	✓						
3		96 Soil		SL		6/24/10 10:41	1	✓	✓						
4		97 Soil		SL		6/24/10 11:03	1	✓	✓						
5		98 Soil		SL		6/24/10 11:08	1	✓	✓						
6		EU2-79		SL		6/24/10 11:34	1	✓	✓						
7		EU2-78		SL		6/24/10 11:57	1	✓	✓						
8		EU2-77		SL		6/24/10 11:54	1	✓	✓						
9		EU2-76		SL		6/24/10 11:51	1	✓	✓						
10		EU2-74		SL		6/24/10 13:16	1	✓	✓						

1269161  
Pace Project No. / Lab I.D.

SIEVE SAMPLES  
w/ No. 60 Mesh  
SCREEN

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
<u>Sam Miller</u>	<u>6/24/10</u>	<u>10:08</u>	<u>Lee Ann Hawthorne</u>	<u>6/24/10</u>	<u>0845</u>	
<u>Sam Miller</u>	<u>6/24/10</u>	<u>10:44</u>	<u>Lee Ann Hawthorne</u>	<u>6/24/10</u>	<u>1010</u>	
<u>Sam Miller</u>	<u>6/24/10</u>	<u>10:41</u>	<u>Lee Ann Hawthorne</u>	<u>6/24/10</u>	<u>1010</u>	
<u>Sam Miller</u>	<u>6/24/10</u>	<u>11:03</u>	<u>Lee Ann Hawthorne</u>	<u>6/24/10</u>	<u>1010</u>	
<u>Sam Miller</u>	<u>6/24/10</u>	<u>11:08</u>	<u>Lee Ann Hawthorne</u>	<u>6/24/10</u>	<u>1010</u>	
<u>Sam Miller</u>	<u>6/24/10</u>	<u>11:34</u>	<u>Lee Ann Hawthorne</u>	<u>6/24/10</u>	<u>1010</u>	
<u>Sam Miller</u>	<u>6/24/10</u>	<u>11:57</u>	<u>Lee Ann Hawthorne</u>	<u>6/24/10</u>	<u>1010</u>	
<u>Sam Miller</u>	<u>6/24/10</u>	<u>11:54</u>	<u>Lee Ann Hawthorne</u>	<u>6/24/10</u>	<u>1010</u>	
<u>Sam Miller</u>	<u>6/24/10</u>	<u>11:51</u>	<u>Lee Ann Hawthorne</u>	<u>6/24/10</u>	<u>1010</u>	
<u>Sam Miller</u>	<u>6/24/10</u>	<u>13:16</u>	<u>Lee Ann Hawthorne</u>	<u>6/24/10</u>	<u>1010</u>	

Electronic Data Deliverable (EDD):  EQuis  Excel  VIA EIM  Other \_\_\_\_\_  
State Specific:  CA EDD (Global ID: \_\_\_\_\_)  CA WriteOn (Site: \_\_\_\_\_)

SAMPLER NAME AND SIGNATURE:  
PRINT Name of SAMPLER: Danielle Manning  
SIGNATURE of SAMPLER: [Signature]  
DATE Signed (MM/DD/YYYY): 6/24/10



# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 4 of 4

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:	
Company: <u>STANTEC</u>	Report To:	Company Name:	Attention:	REGULATORY AGENCY	
Address: <u>3875 Armenton Road</u>	Copy To:	Address: <u>28774</u>		NPDES	GROUND WATER
City: <u>Rockledge, FL 32957</u>		Pace Quote Reference: <u>28774</u>		UST	RCRA
State: <u>FL</u>		Pace Project Manager: <u>Lee Ann Brantner</u>		Site Location STATE: <u>CA</u>	DRINKING WATER
Phone: <u>407-343-1111</u>		Pace Profile #:			OTHER
Requested Due Date/TAT: <u>STANDARD</u>					
		Project Name: <u>Sacramento Manager</u>			
		Project Number: <u>85703375</u>			

ITEM #	Valid Matrix Codes MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	PRESERVATIVES	ANALYSIS TEST	ACCEPTED BY / AFFILIATION	DATE	TIME	DATE	TIME	SAMPLE CONDITIONS	Temp in °C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)
			DATE	TIME														
1	EU2-75	SL	06/20/16	13:34	1	Unpreserved	✓	✓	6/27/16	0845	6/27/16	1010	3.6	Y	Y	Y	Y	Y
2	EU2-72	SL		13:56	1	Unpreserved	✓	✓										
3	EU2-66	SL		14:17	1	Unpreserved	✓	✓										
4	EU2-71	SL		14:41	1	Unpreserved	✓	✓										
5	EU2-67	SL		15:00	1	Unpreserved	✓	✓										
6	EU2-85	SL		15:14	1	Unpreserved	✓	✓										
7	EU2-68	SL		15:21	1	Unpreserved	✓	✓										
8	EU2-73	SL		15:24	1	Unpreserved	✓	✓										
9	EU2-69	SL		15:42	1	Unpreserved	✓	✓										
10	EU2-70	SL		15:32	1	Unpreserved	✓	✓										

**ADDITIONAL COMMENTS**

*Lee Ann Brantner*  
Lee Ann Brantner  
6/27/16

**RELINQUISHED BY / AFFILIATION**

*Lee Ann Brantner*  
Lee Ann Brantner  
6/27/16

**DATE SIGNED (MM/DD/YYYY)**

6/27/16

**SAMPLER NAME AND SIGNATURE**

*Danielle Manning*  
Danielle Manning  
6/27/16


**PRINT NAME OF SAMPLER:** Danielle Manning  
**SIGNATURE OF SAMPLER:** *Danielle Manning*

**DATE SIGNED (MM/DD/YYYY):** 6/27/16

**Sample Condition Upon Receipt**

Client Name: STANTEC Project #: \_\_\_\_\_

**WO# : 1269161**



1269161

Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  OnTrac  Other: N/A  
 Tracking Number: J. Jude

Custody Seal on Cooler/Box Present?  Yes  No Seals Intact?  Yes  No

Packing Material:  Bubble Wrap  Bubble Bags  None  Other: N/A Temp Blank?  Yes  No

Thermom. Used:  DA1434  DA2285 Type of Ice:  Wet  Blue  Dry Ice  None  Samples on ice, cooling process has begun

Cooler Temp Read(°C): 3.2 Cooler Temp Corrected(°C): 3.6 Biological Tissue Frozen?  Yes  No  N/A

Temp should be above freezing to 6°C Correction Factor: +0.4 Date and Initials of Person Examining Contents: CAR 062716

			Comments:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	<u>Samples are labeled on the lids rather than on a sample label.</u>
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	Note if sediment is visible in the dissolved container.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.	
-Includes Date/Time/ID/Analysis Matrix: <u>SL</u>			
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.	<input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> HCl Sample # Initial when completed: _____ Lot # of added preservative: _____
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.	
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.	
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased):			

**CLIENT NOTIFICATION/RESOLUTION**

Field Data Required?  Yes  No

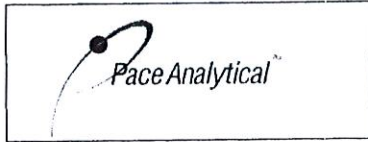
Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/Resolution: \_\_\_\_\_

Project Manager Review: [Signature]

Date: 6/27/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers)



Document Name:  
**Soil Checklist**  
Document No.:  
**F-DAV-C-028-Rev.00**

Pace Davis Quality Office

**SOIL CHECKLIST**

**To Be Completed by SR Staff:**

Client: STANTEC

Date: 06/27/2016

Initials: CAR

Are any samples from a depth of ≤ 6 ft?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not indicated (If No, proceed with receipt, samples are not regulated.)
Sample Origin (circle one):	FOREIGN <u>DOMESTIC</u>
<i>(Note: soil samples from Hawaii and Puerto Rico are considered to be of a Foreign Source)</i>	
If Foreign, list County of Origin:	
If Domestic, circle State of Origin:	AL AR AZ <u>CA</u> FL GA ID LA MS NC NM NY OK OR SC TN TX WA <input type="checkbox"/> NONE OF THE ABOVE (If None of the Above, proceed with receipt, samples are not regulated.)
If from a circled state above, County of Origin	<i>If unknown, contact PM. Project cannot be received until this is determined.</i> <u>Sacramento County</u>
Is County of Origin in a Regulated or Quarantined Zone?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If No, proceed with receipt, samples are not regulated.)

REQUIREMENT	ACTION	COMPLETED
Samples from a depth of > 6 feet are not regulated under APHIS / USDA guidelines	Were samples segregated by depth ≤ or > 6 feet? (If samples from > 6 feet were in direct contact with soil from ≤ 6 ft, all soils must be treated as regulated.)	YES NO N/A
Yellow stickers are to be placed on all regulated samples.	Did yellow stickers get placed on all sample containers?	YES NO
Samples must be segregated and stored in designated bins, shelves and coolers.	Were samples placed in a designated cooler, containers and shelves?	YES NO
Samples must be double contained to prevent accidental release.	Were there any signs of breakage or leakage (check for broken glass and/or loose soil in the cooler)? <i>If NO, ice and melt water can be disposed of by normal process (down the drain).</i>	YES NO
	If YES, were ice and melt water separated from the cooler and disposed of properly?	YES NO N/A
	<b>Any broken glass and/or loose soil are to be bagged and placed in a USDA Regulated satellite container or active drum (see Waste Coordinator). Ice and melt water must be containerized and sterilized by adding enough bleach to achieve a 10% concentration and allowed to sit for ≥ 30 minutes before disposing.</b>	
Equipment and supplies that have come into contact samples must be decontaminated.	Was the cooler(s) and/or countertop(s) decontaminated using a fresh 10% bleach solution? (Gloves and other lab supplies will be bagged and placed in the SR USDA Regulated satellite container).	YES NO

**To Be Completed by PM/PC for Regulated Soils:**

Sample Analysis to be conducted at (circle all that apply):

Davis

Subcontract Lab

Name of Subcontract Lab(s): \_\_\_\_\_

REQUIREMENT	ACTION	COMPLETED
USDA / APHIS rep must be informed by email prior to shipping untreated soil to any subcontract lab, including IR Pace Labs.	Anthony Jackson, USDA APHIS PPQ Tel.: (916) 930-5536 Email: Anthony.S.Jackson@aphis.usda.gov	YES NO N/A
Shipment must include a valid copy of the receiving lab's permit along with all required forms.	Is a copy of all needed paperwork included with the COC? Do NOT ship samples until all necessary paperwork is compiled.	YES NO N/A

Comments: (Sacramento county), Per Jason Jude

Project Manager Signature: \_\_\_\_\_

Lackeyhote

Date: \_\_\_\_\_

6/27/16

# Chain of Custody



Workorder: 1269161      Workorder Name: Sacramento Mangan      Owner Received Date: 6/27/2016      Results Requested By: 7/5/2016

Report To	Subcontract To	Requested Analysis													
<p>LeeAnn Heathcote Pace Analytical Davis 2795 Second Street Suite 300 Davis, CA 95618 Phone (530) 297-4800</p>		<p>Pace Analytical Billings MT 150 N Ninth Street Billings, MT 59101 Phone (406) 254-7226</p>													
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Unpreserved	Preserved Containers	X					LAB USE ONLY		
1	EUI-60	PS	6/23/2016 14:00	1269161001	Solid	1		X	X	X	X	X	X	X	10353658
2	EUI-63	PS	6/23/2016 14:15	1269161002	Solid	1		X	X	X	X	X	X	X	001
3	EUI-62	PS	6/23/2016 14:29	1269161003	Solid	1		X	X	X	X	X	X	X	607
4	EUI-61	PS	6/23/2016 14:45	1269161004	Solid	1		X	X	X	X	X	X	X	003
5	EUI-54	PS	6/23/2016 14:56	1269161005	Solid	1		X	X	X	X	X	X	X	004
6	EUI-53	PS	6/23/2016 15:10	1269161006	Solid	1		X	X	X	X	X	X	X	005
7	EUI-46	PS	6/23/2016 15:20	1269161007	Solid	1		X	X	X	X	X	X	X	006
8	EUI-94	PS	6/24/2016 07:36	1269161008	Solid	1		X	X	X	X	X	X	X	007
9	EUI-89	PS	6/24/2016 07:55	1269161009	Solid	1		X	X	X	X	X	X	X	008
10	EUI-88	PS	6/24/2016 08:02	1269161010	Solid	1		X	X	X	X	X	X	X	009
11	EUI-83	PS	6/24/2016 08:23	1269161011	Solid	1		X	X	X	X	X	X	X	010
12	EUI-82	PS	6/24/2016 08:27	1269161012	Solid	1		X	X	X	X	X	X	X	011
13	EUI-81	PS	6/24/2016 08:42	1269161013	Solid	1		X	X	X	X	X	X	X	012
14	EUI-84	PS	6/24/2016 08:43	1269161014	Solid	1		X	X	X	X	X	X	X	013
15	EUI-87	PS	6/24/2016 08:53	1269161015	Solid	1		X	X	X	X	X	X	X	014
16	EUI-90	PS	6/24/2016 08:59	1269161016	Solid	1		X	X	X	X	X	X	X	015
17	EUI-93	PS	6/24/2016 09:19	1269161017	Solid	1		X	X	X	X	X	X	X	016
18	EUI-92	PS	6/24/2016 09:38	1269161018	Solid	1		X	X	X	X	X	X	X	017
19	EUI-91	PS	6/24/2016 09:50	1269161019	Solid	1		X	X	X	X	X	X	X	018

Handwritten: Air-dried sieve



**Workorder:** 1269161    **Workorder Name:** Sacramento Mangan    **Owner Received Date:** 6/27/2016    **Results Requested By:** 7/5/2016  
**Report To**    **Subcontract To**    **Requested Analysis**

LeeAnn Heathcote  
 Pace Analytical Davis  
 2795 Second Street  
 Suite 300  
 Davis, CA 95618  
 Phone (530) 297-4800

Pace Analytical Billings MT  
 150 N Ninth Street  
 Billings, MT 59101  
 Phone (406) 254-7226

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers				LAB USE ONLY																													
						Unpreserved																																	
20	EU3-86	PS	6/24/2016 09:52	1269161020	Solid	1																															020		
21	EU3-80	PS	6/24/2016 10:08	1269161021	Solid	1																																021	
22	95 Soil	PS	6/24/2016 10:44	1269161022	Solid	1																																022	
23	96 Soil	PS	6/24/2016 10:41	1269161023	Solid	1																																023	
24	97 Soil	PS	6/24/2016 11:03	1269161024	Solid	1																																024	
25	98 Soil	PS	6/24/2016 11:08	1269161025	Solid	1																																025	
26	EU2-79	PS	6/24/2016 11:34	1269161026	Solid	1																																026	
27	EU2-78	PS	6/24/2016 11:37	1269161027	Solid	1																																027	
28	EU2-77	PS	6/24/2016 11:54	1269161028	Solid	1																																028	
29	EU2-76	PS	6/24/2016 11:51	1269161029	Solid	1																																029	
30	EU2-74	PS	6/24/2016 13:16	1269161030	Solid	1																																030	
31	EU2-75	PS	6/24/2016 13:34	1269161031	Solid	1																																031	
32	EU2-72	PS	6/24/2016 13:56	1269161032	Solid	1																																032	
33	EU2-66	PS	6/24/2016 14:17	1269161033	Solid	1																																033	
34	EU2-71	PS	6/24/2016 14:41	1269161034	Solid	1																																034	
35	EU2-67	PS	6/24/2016 15:00	1269161035	Solid	1																																035	
36	EU2-85	PS	6/24/2016 15:14	1269161036	Solid	1																																036	
37	EU2-68	PS	6/24/2016 15:21	1269161037	Solid	1																																037	
38	EU2-73	PS	6/24/2016 15:24	1269161038	Solid	1																																038	
39	EU2-69	PS	6/24/2016 15:42	1269161039	Solid	1																																	039

Andrew + 5/12/16  
 U.S. No. 60 MASH

Preserved Containers			
Unpreserved			



# Chain of Custody



Workorder: 1269161      Workorder Name: Sacramento Mangan      Owner Received Date: 6/27/2016      Results Requested By: 7/5/2016

Report To		Subcontract To		Requested Analysis																																					
LeeAnn Heathcote Pace Analytical Davis 2795 Second Street Suite 300 Davis, CA 95618 Phone (530) 297-4800		Pace Analytical Billings MT 150 N Ninth Street Billings, MT 59101 Phone (406) 254-7226																																							
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix																																				
40	EU2-70	PS	6/24/2016 15:32	1269161040	Solid																																				
41																																									
42																																									
43																																									
44																																									
<table border="1"> <thead> <tr> <th colspan="2">Preserved Containers</th> </tr> <tr> <th>Unpreserved</th> <th>Preserved</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> </tr> </tbody> </table>						Preserved Containers		Unpreserved	Preserved	1																															
Preserved Containers																																									
Unpreserved	Preserved																																								
1																																									
<table border="1"> <thead> <tr> <th>Transfers</th> <th>Released By</th> <th>Date/Time</th> <th>Received By</th> <th>Date/Time</th> <th>Received on Ice</th> <th>Y or N</th> <th>Samples Intact</th> <th>Y or N</th> </tr> </thead> <tbody> <tr> <td>1</td> <td><i>[Signature]</i></td> <td>06/27/16 16:20</td> <td><i>[Signature]</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td><i>[Signature]</i></td> <td>6/30/16 16:00</td> <td><i>[Signature]</i></td> <td>6/29/16 09:30</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td><i>[Signature]</i></td> <td></td> <td><i>[Signature]</i></td> <td>6/28/16 18:20</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>						Transfers	Released By	Date/Time	Received By	Date/Time	Received on Ice	Y or N	Samples Intact	Y or N	1	<i>[Signature]</i>	06/27/16 16:20	<i>[Signature]</i>						2	<i>[Signature]</i>	6/30/16 16:00	<i>[Signature]</i>	6/29/16 09:30					3	<i>[Signature]</i>		<i>[Signature]</i>	6/28/16 18:20				
Transfers	Released By	Date/Time	Received By	Date/Time	Received on Ice	Y or N	Samples Intact	Y or N																																	
1	<i>[Signature]</i>	06/27/16 16:20	<i>[Signature]</i>																																						
2	<i>[Signature]</i>	6/30/16 16:00	<i>[Signature]</i>	6/29/16 09:30																																					
3	<i>[Signature]</i>		<i>[Signature]</i>	6/28/16 18:20																																					
Cooler Temperature on Receipt 5.8 °C																																									
Comments: * Return to Davis after sieving out large particles.																																									


\*\*\*In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.

**Sample Condition Upon Receipt**

Client Name: Pace CA

Project #:

**WO#: 10353858**



10353858

Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  Other:

Tracking Number: 7764 1771 2785

Custody Seal on Cooler/Box Present?  Yes  No Seals Intact?  Yes  No

Packing Material:  Bubble Wrap  Bubble Bags  None  Other: \_\_\_\_\_ Temp Blank?  Yes  No

Thermometer Used:  13830045  NA Type of Ice:  Wet  Blue  None  Samples on ice, cooling process has begun

Cooler Temp Read: 5.7

Date and Initials of Person Examining Contents: WPA ML

Cooler Temp Corrected: 5.8

Biological Tissue Frozen?  Yes  No

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name and Signature on COC?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes Date/Time/ID/Analysis Matrix: <u>SL</u>		
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Sample # <u>NA</u>
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed: _____ Lot # of added preservative: _____
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>NA</u>		

**CLIENT NOTIFICATION/RESOLUTION**

Field Data Required?  Yes  No

Person Contacted: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Comments/Resolution: \_\_\_\_\_

**Project Manager Review:** \_\_\_\_\_

Date: 6/29/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)



Document Name:  
**Sample Condition Upon Receipt Form**  
 Document No.:  
**F-DAV-C-002-rev.02**

Document Revised: 25Feb2015  
 Page 1 of 1  
 Issuing Authority:  
 Pace Davis, CA Quality Office

**Sample Condition Upon Receipt**

Client Name: Stantec Project #: \_\_\_\_\_

Project #: \_\_\_\_\_

Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  OnTrac  Other: \_\_\_\_\_  
 Tracking Number: \_\_\_\_\_

Custody Seal on Cooler/Box Present?  Yes  No Seals Intact?  Yes  No  
 Optional: Proj. Due Date: \_\_\_\_\_ Proj. Name: \_\_\_\_\_

Packing Material:  Bubble Wrap  Bubble Bags  None  Other: \_\_\_\_\_ Temp Blank?  Yes  No

Thermom. Used:  DA1434  DA2285 Type of Ice:  Wet  Blue  Dry Ice  None  Samples on ice, cooling process has begun

Cooler Temp Read(°C): 16.0 Cooler Temp Corrected(°C): 16.4 Biological Tissue Frozen?  Yes  No  N/A  
 Temp should be above freezing to 6°C Correction Factor: +0.4 Date and Initials of Person Examining Contents: gjf 07/05/16

			Comments:
Chain of Custody Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	<i>These are the sieve samples returned from Pace Billings. SR received 1 plastic bag per sample.</i>
Chain of Custody Filled Out?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody Relinquished?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name and/or Signature on COC?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient Volume?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct Containers Used?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Pace Containers Used?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container.	
Sample Labels Match COC?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.	
-Includes Date/Time/ID/Analysis Matrix:			
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> HCl	
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Sample #	
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed: _____ Lot # of added preservative: _____	
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.	
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.	
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased):			

**CLIENT NOTIFICATION/RESOLUTION**

Field Data Required?  Yes  No

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/Resolution: \_\_\_\_\_

Project Manager Review: LA Washate Date: 7/5/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Workorder: 1269161

Workorder Name: Sacramento Mangan

Owner Received Date: 6/27/2016

Results Requested By: 7/5/2016

Report To		Subcontract To		Requested Analysis												
LeeAnn Heathcote Pace Analytical Davis 2795 Second Street Suite 300 Davis, CA 95618 Phone (530) 297-4800		Pace Analytical Billings MT 150 N Ninth Street Billings, MT 59101 Phone (406) 254-7226														
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Unpreserved	Preserved Containers					Air Dry + Sieve		Using 60 mesh *		
1	EUI-60	PS	6/23/2016 14:00	1269161001	Solid	1										
2	EUI-63	PS	6/23/2016 14:15	1269161002	Solid	1										
3	EUI-62	PS	6/23/2016 14:29	1269161003	Solid	1										
4	EUI-61	PS	6/23/2016 14:45	1269161004	Solid	1										
5	EUI-54	PS	6/23/2016 14:56	1269161005	Solid	1										
6	EUI-53	PS	6/23/2016 15:10	1269161006	Solid	1										
7	EUI-46	PS	6/23/2016 15:20	1269161007	Solid	1										
8	EUI-94	PS	6/24/2016 07:36	1269161008	Solid	1										
9	EUI-89	PS	6/24/2016 07:55	1269161009	Solid	1										
10	EUI-88	PS	6/24/2016 08:02	1269161010	Solid	1										
11	EUI-83	PS	6/24/2016 08:23	1269161011	Solid	1										
12	EUI-82	PS	6/24/2016 08:27	1269161012	Solid	1										
13	EUI-81	PS	6/24/2016 08:42	1269161013	Solid	1										
14	EUI-84	PS	6/24/2016 08:43	1269161014	Solid	1										
15	EUI-87	PS	6/24/2016 08:53	1269161015	Solid	1										
16	EUI-90	PS	6/24/2016 08:59	1269161016	Solid	1										
17	EUI-93	PS	6/24/2016 09:19	1269161017	Solid	1										
18	EUI-92	PS	6/24/2016 09:38	1269161018	Solid	1										
19	EUI-91	PS	6/24/2016 09:50	1269161019	Solid	1										

10353858  
LAB USE ONLY  
001  
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019



Workorder: 1269161

Workorder Name: Sacramento Mangan

Owner Received Date: 6/27/2016

Results Requested By: 7/5/2016

LeeAnn Heathcote  
Pace Analytical Davis  
2795 Second Street  
Suite 300  
Davis, CA 95618  
Phone (530) 297-4800

Pace Analytical Billings MT  
150 N Ninth Street  
Billings, MT 59101  
Phone (406) 294-7226

Report To		Subcontract To		Requested Analysis																
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Unpreserved	Preserved Containers													
20	EU3-86	PS	6/24/2016 09:52	1269161020	Solid	1														
21	EU3-80	PS	6/24/2016 10:08	1269161021	Solid	1														
22	95 Soil	PS	6/24/2016 10:44	1269161022	Solid	1														
23	96 Soil	PS	6/24/2016 10:41	1269161023	Solid	1														
24	97 Soil	PS	6/24/2016 11:03	1269161024	Solid	1														
25	98 Soil	PS	6/24/2016 11:08	1269161025	Solid	1														
26	EU2-79	PS	6/24/2016 11:34	1269161026	Solid	1														
27	EU2-78	PS	6/24/2016 11:37	1269161027	Solid	1														
28	EU2-77	PS	6/24/2016 11:54	1269161028	Solid	1														
29	EU2-76	PS	6/24/2016 11:51	1269161029	Solid	1														
30	EU2-74	PS	6/24/2016 13:16	1269161030	Solid	1														
31	EU2-75	PS	6/24/2016 13:34	1269161031	Solid	1														
32	EU2-72	PS	6/24/2016 13:56	1269161032	Solid	1														
33	EU2-66	PS	6/24/2016 14:17	1269161033	Solid	1														
34	EU2-71	PS	6/24/2016 14:41	1269161034	Solid	1														
35	EU2-67	PS	6/24/2016 15:00	1269161035	Solid	1														
36	EU2-85	PS	6/24/2016 15:14	1269161036	Solid	1														
37	EU2-68	PS	6/24/2016 15:21	1269161037	Solid	1														
38	EU2-73	PS	6/24/2016 15:24	1269161038	Solid	1														
39	EU2-69	PS	6/24/2016 15:42	1269161039	Solid	1														

Using No. 60 mesh \*  
Andrea + sieve

10353858  
LAB USE ONLY

# Chain of Custody



Workorder: 1269161

Workorder Name: Sacramento Mangan

Owner Received Date: 6/27/2016

Results Requested By: 7/5/2016

Report To		Subcontract To			Requested Analysis												
LeeAnn Heathcote Pace Analytical Davis 2795 Second Street Suite 300 Davis, CA 95618 Phone (530) 297-4800		Pace Analytical Billings MT 150 N Ninth Street Billings, MT 59101 Phone (406) 254-7226															
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers											
40	EU2-70	PS	6/24/2016 15:32	1269161040	Solid	Unpreserved	1										
41																	
42																	
43																	
44																	

*Handwritten:* Air dry + sieve  
using Wabonash\*

*Handwritten:* 10353858  
LAB USE ONLY  
240


Transfers		Released By	Date/Time	Received By	Date/Time	Received on Ice	Y or N	Received on Ice	Y or N	Samples Intact	Y or N
1		<i>Handwritten:</i> [Signature]	06/27/16 16:20	<i>Handwritten:</i> [Signature]	6/29/16 09:30		Y		N	Y	N
2		<i>Handwritten:</i> [Signature]									
3											

*Handwritten:* \*Return to Davis after sieving out large particles.

*Handwritten:* Samples Intact Y or N

\*\*\*In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

This chain of custody is considered complete as is since this information is available in the owner laboratory.

	Document Name: Soil Checklist	PM: LAH CLIENT: 19StantecRC1	Due Date: 07/03/16
	Document No.: F-DAV-C-028-Rev.00	Pace Davis Quality Office	

**SOIL CHECKLIST**

To Be Completed by SR Staff:

Client: STANTEC Date: 06/27/2016 Initials: CAR

Are any samples from a depth of ≤ 6 ft?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not indicated (If No, proceed with receipt, samples are not regulated.)
Sample Origin (circle one):	FOREIGN <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">DOMESTIC</span>
<i>(Note: soil samples from Hawaii and Puerto Rico are considered to be of a Foreign Source)</i>	
If Foreign, list County of Origin:	
If Domestic, circle State of Origin:	AL AR AZ <b>CA</b> FL GA ID LA MS NC NM NY OK OR SC TN TX WA <input type="checkbox"/> NONE OF THE ABOVE (if None of the Above, proceed with receipt, samples are not regulated.)
If from a circled state above, County of Origin	<i>If unknown, contact PM. Project cannot be received until this is determined.</i> <u>Sacramento County</u>
Is County of Origin in a Regulated or Quarantined Zone?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If No, proceed with receipt, samples are not regulated.)

REQUIREMENT	ACTION	COMPLETED
Samples from a depth of > 6 feet are not regulated under APHIS / USDA guidelines	Were samples segregated by depth ≤ or > 6 feet? (If samples from > 6 feet were in direct contact with soil from ≤ 6 ft, all soils must be treated as regulated.)	YES NO N/A
Yellow stickers are to be placed on all regulated samples.	Did yellow stickers get placed on all sample containers?	YES NO
Samples must be segregated and stored in designated bins, shelves and coolers.	Were samples placed in a designated cooler, containers and shelves?	YES NO
Samples must be double contained to prevent accidental release.	Were there any signs of breakage or leakage (check for broken glass and/or loose soil in the cooler)?	YES NO
	<i>If NO, ice and melt water can be disposed of by normal process (down the drain).</i>	
	If YES, were ice and melt water separated from the cooler and disposed of properly?	YES NO N/A
Equipment and supplies that have come into contact samples must be decontaminated.	Was the cooler(s) and/or countertop(s) decontaminated using a fresh 10% bleach solution? (Gloves and other lab supplies will be bagged and placed in the SR USDA Regulated satellite container).	YES NO

To Be Completed by PM/PC for Regulated Soils:

Sample Analysis to be conducted at (circle all that apply):  Davis  Subcontract Lab  
Name of Subcontract Lab(s): \_\_\_\_\_

REQUIREMENT	ACTION	COMPLETED
USDA / APHIS rep must be informed by email prior to shipping untreated soil to any subcontract lab, including IR Pace Labs.	Anthony Jackson, USDA APHIS PPQ Tel.: (916) 930-5536 Email: Anthony.S.Jackson@aphis.usda.gov	YES NO N/A
Shipment must include a valid copy of the receiving lab's permit along with all required forms.	Is a copy of all needed paperwork included with the COC? Do NOT ship samples until all necessary paperwork is compiled.	YES NO N/A

Comments: (Sacramento County), Per Jason Jude

Project Manager Signature: \_\_\_\_\_

Date: \_\_\_\_\_

**Sample Condition Upon Receipt**

Client Name: Pace CA Project #: \_\_\_\_\_

WO#: 10353858



10353858

Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  Other: \_\_\_\_\_

Tracking Number: 766 1771 2785

Custody Seal on Cooler/Box Present?  Yes  No    Seals Intact?  Yes  No    Optional: Proj. Due Date: \_\_\_\_\_ Proj. Name: \_\_\_\_\_

Packing Material:  Bubble Wrap  Bubble Bags  None  Other: \_\_\_\_\_    Temp Blank?  Yes  No

Thermometer Used:  13830045  NA    Type of Ice:  Wet  Blue  None  Samples on ice, cooling process has begun

Cooler Temp Read: 5.7

Date and Initials of Person Examining Contents: 6/29/16

Cooler Temp Corrected: 5.8

Biological Tissue Frozen?  Yes  No

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name and Signature on COC?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	Note if sediment is visible in the dissolved container.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.	
-Includes Date/Time/ID/Analysis Matrix: <u>SL</u>			
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.	<input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Sample # <u>NA</u>
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Initial when completed: _____ Lot # of added preservative: _____
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.	
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.	
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased): <u>NA</u>			

**CLIENT NOTIFICATION/RESOLUTION**

Field Data Required?  Yes  No

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/Resolution: \_\_\_\_\_

Project Manager Review: \_\_\_\_\_

Date: 6/29/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)



July 06, 2016

Neil Doran  
Stantec Consulting Services  
3875 Atherton Road  
Rocklin, CA 95765

RE: Project: Mangan Sacramento  
Pace Project No.: 1269026

Dear Neil Doran:

Enclosed are the analytical results for sample(s) received by the laboratory on June 23, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



LeeAnn Heathcote  
leeann.heathcote@pacelabs.com  
Project Manager

Enclosures

cc: Danielle Manning, Stantec Consulting Services  
Data Dept for EDDs, Stantec



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Mangan Sacramento  
Pace Project No.: 1269026

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### Davis Certification IDs

2795 Second Street Suite 300 Davis, CA 95618  
North Dakota Certification #: R-214  
Oregon Certification #: CA300002  
Washington Certification #: C926-15a

California Certification #: 08263CA  
Minnesota Department of Health Certification #: 006-999-465

---

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Mangan Sacramento

Pace Project No.: 1269026

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1269026001	EU1-49	Solid	06/23/16 08:20	06/23/16 14:57
1269026002	EU1-50	Solid	06/23/16 08:48	06/23/16 14:57
1269026003	EU1-57	Solid	06/23/16 09:15	06/23/16 14:57
1269026004	EU1-58	Solid	06/23/16 09:55	06/23/16 14:57
1269026005	EU1-65	Solid	06/23/16 10:15	06/23/16 14:57
1269026006	EU1-64	Solid	06/23/16 10:46	06/23/16 14:57
1269026007	EU1-59	Solid	06/23/16 11:15	06/23/16 14:57
1269026008	EU1-56	Solid	06/23/16 11:30	06/23/16 14:57
1269026009	EU1-51	Solid	06/23/16 11:40	06/23/16 14:57
1269026010	EU1-48	Solid	06/23/16 11:55	06/23/16 14:57
1269026011	EU1-47	Solid	06/23/16 13:00	06/23/16 14:57
1269026012	EU1-52	Solid	06/23/16 13:20	06/23/16 14:57
1269026013	EU1-55	Solid	06/23/16 13:35	06/23/16 14:57

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Mangan Sacramento

Pace Project No.: 1269026

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
1269026001	EU1-49	EPA 6010B	JLL	1	PASI-DAV
1269026002	EU1-50	EPA 6010B	JLL	1	PASI-DAV
1269026003	EU1-57	EPA 6010B	JLL	1	PASI-DAV
1269026004	EU1-58	EPA 6010B	JLL	1	PASI-DAV
1269026005	EU1-65	EPA 6010B	JLL	1	PASI-DAV
1269026006	EU1-64	EPA 6010B	JLL	1	PASI-DAV
1269026007	EU1-59	EPA 6010B	JLL	1	PASI-DAV
1269026008	EU1-56	EPA 6010B	JLL	1	PASI-DAV
1269026009	EU1-51	EPA 6010B	JLL	1	PASI-DAV
1269026010	EU1-48	EPA 6010B	JLL	1	PASI-DAV
1269026011	EU1-47	EPA 6010B	JLL	1	PASI-DAV
1269026012	EU1-52	EPA 6010B	JLL	1	PASI-DAV
1269026013	EU1-55	EPA 6010B	JLL	1	PASI-DAV

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Mangan Sacramento  
Pace Project No.: 1269026

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>1269026001</b>	<b>EU1-49</b>					
EPA 6010B	Lead	40.0	mg/kg	0.47	06/29/16 13:54	
<b>1269026002</b>	<b>EU1-50</b>					
EPA 6010B	Lead	118	mg/kg	0.50	06/29/16 13:58	
<b>1269026003</b>	<b>EU1-57</b>					
EPA 6010B	Lead	35.5	mg/kg	0.48	06/29/16 14:01	
<b>1269026004</b>	<b>EU1-58</b>					
EPA 6010B	Lead	248	mg/kg	0.50	06/29/16 14:05	
<b>1269026005</b>	<b>EU1-65</b>					
EPA 6010B	Lead	213	mg/kg	0.49	06/29/16 14:08	
<b>1269026006</b>	<b>EU1-64</b>					
EPA 6010B	Lead	33.2	mg/kg	0.48	06/29/16 14:18	
<b>1269026007</b>	<b>EU1-59</b>					
EPA 6010B	Lead	27.2	mg/kg	0.50	07/05/16 10:59	
<b>1269026008</b>	<b>EU1-56</b>					
EPA 6010B	Lead	47.9	mg/kg	0.48	07/05/16 11:02	
<b>1269026009</b>	<b>EU1-51</b>					
EPA 6010B	Lead	20.7	mg/kg	0.50	07/05/16 11:06	
<b>1269026010</b>	<b>EU1-48</b>					
EPA 6010B	Lead	28.0	mg/kg	0.50	07/05/16 11:09	
<b>1269026011</b>	<b>EU1-47</b>					
EPA 6010B	Lead	20.6	mg/kg	0.50	07/05/16 11:13	
<b>1269026012</b>	<b>EU1-52</b>					
EPA 6010B	Lead	20.9	mg/kg	0.45	07/05/16 11:16	
<b>1269026013</b>	<b>EU1-55</b>					
EPA 6010B	Lead	85.2	mg/kg	0.45	07/05/16 11:19	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Mangan Sacramento

Pace Project No.: 1269026

**Sample: EU1-49**      **Lab ID: 1269026001**      Collected: 06/23/16 08:20      Received: 06/23/16 14:57      Matrix: Solid

*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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**6010 MET ICP**      Analytical Method: EPA 6010B      Preparation Method: EPA 3050

Lead	<b>40.0</b>	mg/kg	0.47	1	06/28/16 14:19	06/29/16 13:54	7439-92-1	
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**Sample: EU1-50**      **Lab ID: 1269026002**      Collected: 06/23/16 08:48      Received: 06/23/16 14:57      Matrix: Solid

*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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**6010 MET ICP**      Analytical Method: EPA 6010B      Preparation Method: EPA 3050

Lead	<b>118</b>	mg/kg	0.50	1	06/28/16 14:19	06/29/16 13:58	7439-92-1	
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**Sample: EU1-57**      **Lab ID: 1269026003**      Collected: 06/23/16 09:15      Received: 06/23/16 14:57      Matrix: Solid

*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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**6010 MET ICP**      Analytical Method: EPA 6010B      Preparation Method: EPA 3050

Lead	<b>35.5</b>	mg/kg	0.48	1	06/28/16 14:19	06/29/16 14:01	7439-92-1	
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**Sample: EU1-58**      **Lab ID: 1269026004**      Collected: 06/23/16 09:55      Received: 06/23/16 14:57      Matrix: Solid

*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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**6010 MET ICP**      Analytical Method: EPA 6010B      Preparation Method: EPA 3050

Lead	<b>248</b>	mg/kg	0.50	1	06/28/16 14:19	06/29/16 14:05	7439-92-1	
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**Sample: EU1-65**      **Lab ID: 1269026005**      Collected: 06/23/16 10:15      Received: 06/23/16 14:57      Matrix: Solid

*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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**6010 MET ICP**      Analytical Method: EPA 6010B      Preparation Method: EPA 3050

Lead	<b>213</b>	mg/kg	0.49	1	06/28/16 14:19	06/29/16 14:08	7439-92-1	
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**Sample: EU1-64**      **Lab ID: 1269026006**      Collected: 06/23/16 10:46      Received: 06/23/16 14:57      Matrix: Solid

*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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**6010 MET ICP**      Analytical Method: EPA 6010B      Preparation Method: EPA 3050

Lead	<b>33.2</b>	mg/kg	0.48	1	06/28/16 14:19	06/29/16 14:18	7439-92-1	
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## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Mangan Sacramento  
Pace Project No.: 1269026

**Sample: EU1-59**      **Lab ID: 1269026007**      Collected: 06/23/16 11:15      Received: 06/23/16 14:57      Matrix: Solid  
*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b> Analytical Method: EPA 6010B      Preparation Method: EPA 3050								
Lead	27.2	mg/kg	0.50	1	06/30/16 08:41	07/05/16 10:59	7439-92-1	

**Sample: EU1-56**      **Lab ID: 1269026008**      Collected: 06/23/16 11:30      Received: 06/23/16 14:57      Matrix: Solid  
*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b> Analytical Method: EPA 6010B      Preparation Method: EPA 3050								
Lead	47.9	mg/kg	0.48	1	06/30/16 08:41	07/05/16 11:02	7439-92-1	

**Sample: EU1-51**      **Lab ID: 1269026009**      Collected: 06/23/16 11:40      Received: 06/23/16 14:57      Matrix: Solid  
*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b> Analytical Method: EPA 6010B      Preparation Method: EPA 3050								
Lead	20.7	mg/kg	0.50	1	06/30/16 08:41	07/05/16 11:06	7439-92-1	

**Sample: EU1-48**      **Lab ID: 1269026010**      Collected: 06/23/16 11:55      Received: 06/23/16 14:57      Matrix: Solid  
*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b> Analytical Method: EPA 6010B      Preparation Method: EPA 3050								
Lead	28.0	mg/kg	0.50	1	06/30/16 08:41	07/05/16 11:09	7439-92-1	

**Sample: EU1-47**      **Lab ID: 1269026011**      Collected: 06/23/16 13:00      Received: 06/23/16 14:57      Matrix: Solid  
*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b> Analytical Method: EPA 6010B      Preparation Method: EPA 3050								
Lead	20.6	mg/kg	0.50	1	06/30/16 08:41	07/05/16 11:13	7439-92-1	

**Sample: EU1-52**      **Lab ID: 1269026012**      Collected: 06/23/16 13:20      Received: 06/23/16 14:57      Matrix: Solid  
*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b> Analytical Method: EPA 6010B      Preparation Method: EPA 3050								
Lead	20.9	mg/kg	0.45	1	06/30/16 08:41	07/05/16 11:16	7439-92-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Mangan Sacramento  
Pace Project No.: 1269026

**Sample: EU1-55**      **Lab ID: 1269026013**      Collected: 06/23/16 13:35      Received: 06/23/16 14:57      Matrix: Solid

*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>		Analytical Method: EPA 6010B    Preparation Method: EPA 3050						
Lead	<b>85.2</b>	mg/kg	0.45	1	06/30/16 08:41	07/05/16 11:19	7439-92-1	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Mangan Sacramento

Pace Project No.: 1269026

QC Batch: DAMP/2057 Analysis Method: EPA 6010B  
 QC Batch Method: EPA 3050 Analysis Description: 6010 MET  
 Associated Lab Samples: 1269026001, 1269026002, 1269026003, 1269026004, 1269026005, 1269026006

METHOD BLANK: 336429 Matrix: Solid  
 Associated Lab Samples: 1269026001, 1269026002, 1269026003, 1269026004, 1269026005, 1269026006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	ND	0.47	06/29/16 13:37	

LABORATORY CONTROL SAMPLE: 336430

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	48.5	50.8	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 336431 336432

Parameter	Units	1269160001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	5.2	48.5	48.1	50.1	49.4	93	92	75-125	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Mangan Sacramento  
Pace Project No.: 1269026

QC Batch: DAMP/2068 Analysis Method: EPA 6010B  
QC Batch Method: EPA 3050 Analysis Description: 6010 MET  
Associated Lab Samples: 1269026007, 1269026008, 1269026009, 1269026010, 1269026011, 1269026012, 1269026013

METHOD BLANK: 338113 Matrix: Solid  
Associated Lab Samples: 1269026007, 1269026008, 1269026009, 1269026010, 1269026011, 1269026012, 1269026013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	ND	0.47	07/05/16 10:35	

LABORATORY CONTROL SAMPLE: 338114

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	47.6	46.8	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 338115 338116

Parameter	Units	1269382001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	5.4	49	48.1	48.5	48.6	88	90	75-125	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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## QUALIFIERS

Project: Mangan Sacramento

Pace Project No.: 1269026

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-DAV Pace Analytical Services - Davis

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Mangan Sacramento

Pace Project No.: 1269026

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
1269026001	EU1-49	EPA 3050	DAMP/2057	EPA 6010B	DAMT/2312
1269026002	EU1-50	EPA 3050	DAMP/2057	EPA 6010B	DAMT/2312
1269026003	EU1-57	EPA 3050	DAMP/2057	EPA 6010B	DAMT/2312
1269026004	EU1-58	EPA 3050	DAMP/2057	EPA 6010B	DAMT/2312
1269026005	EU1-65	EPA 3050	DAMP/2057	EPA 6010B	DAMT/2312
1269026006	EU1-64	EPA 3050	DAMP/2057	EPA 6010B	DAMT/2312
1269026007	EU1-59	EPA 3050	DAMP/2068	EPA 6010B	DAMT/2325
1269026008	EU1-56	EPA 3050	DAMP/2068	EPA 6010B	DAMT/2325
1269026009	EU1-51	EPA 3050	DAMP/2068	EPA 6010B	DAMT/2325
1269026010	EU1-48	EPA 3050	DAMP/2068	EPA 6010B	DAMT/2325
1269026011	EU1-47	EPA 3050	DAMP/2068	EPA 6010B	DAMT/2325
1269026012	EU1-52	EPA 3050	DAMP/2068	EPA 6010B	DAMT/2325
1269026013	EU1-55	EPA 3050	DAMP/2068	EPA 6010B	DAMT/2325
1269026007	EU1-59		MT/24346		
1269026008	EU1-56		MT/24346		
1269026009	EU1-51		MT/24346		
1269026010	EU1-48		MT/24346		
1269026011	EU1-47		MT/24346		
1269026012	EU1-52		MT/24346		
1269026013	EU1-55		MT/24346		

### REPORT OF LABORATORY ANALYSIS

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### CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b> Required Client Information: Company: <u>Stranck</u> Address: <u>3875 Atherton Road</u> City: <u>Rocklin CA 95765</u> Phone: <u>916-472-3933</u> Fax: <u>916-773-8418</u> Email: <u>neil.dobano@stranck.com</u> Requested Due Date/TAT: <u>STANDARD</u>		<b>Section B</b> Required Project Information: Report To: Copy To: Purchase Order No.: Project Name: <u>Sacramento Mangan</u> Project Number: <u>185703375</u>		<b>Section C</b> Invoice Information: Attention: Company Name: Address: Pace Quote Reference: <u>28776</u> Pace Project Manager: Pace Profile #: <u>LEANN HEATHCOTE</u>	
REGULATORY AGENCY NPDES UST Site Location STATE: <u>CA</u>		GROUND WATER RCRA DRINKING WATER OTHER			

ITEM #	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL WIRE WL AIR AR OTHER OT TISSUE TS	SAMPLE ID (A-Z, 0-9 / -)	Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other	Analysis Test	Y/N	Requested Analysis Filtered (Y/N)			Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
						DATE	TIME												DATE	TIME	DATE		
•		EUI-49		SL		6/23/16	08:20	1	✓									✓					1769026
•		EUI-50		SL		6/23/16	08:48	1	✓									✓					HEAD SIEVED 001
•		EUI-57		SL		6/23/16	09:15	1	✓									✓					002
•		EUI-58		SL		6/23/16	09:55	1	✓									✓					003
•		EUI-65		SL		6/23/16	10:15	1	✓									✓					004
•		EUI-64		SL		6/23/16	10:44	1	✓									✓					005
•		EUI-59		SL		6/23/16	11:15	1	✓									✓					006
•		EUI-56		SL		6/23/16	11:30	1	✓									✓					SIEVE SAMPLES
•		EUI-51		SL		6/23/16	11:40	1	✓									✓					W/NO. 60 MESH
•		EW-48		SL		6/23/16	11:55	1	✓									✓					SCREEN

ADDITIONAL COMMENTS <u>Daniella Manning</u> <u>6/23/16 13:50</u> <u>6/23/16 13:50</u> <u>6/23/16 14:57</u> <u>6/23/16 14:57</u>		RELINQUISHED BY / AFFILIATION <u>Daniella Manning</u> <u>Stranck</u>		ACCEPTED BY / AFFILIATION <u>Spide/Pace</u> <u>pure</u>		DATE <u>6/23/16</u> <u>6/23/16</u>		TIME <u>13:50</u> <u>14:57</u>		SAMPLE CONDITIONS Received on Ice (Y/N) Custody Sealed (Y/N) Samples Intact (Y/N)	
Electronic Data Deliverable (EDD): <input type="checkbox"/> EQUIS <input type="checkbox"/> Excel <input type="checkbox"/>		State Specific: <input type="checkbox"/> CA EDR (Global ID: _____) <input type="checkbox"/> WA EIM <input type="checkbox"/> Other _____		SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: <u>Daniella Manning</u> SIGNATURE of SAMPLER: <u>Daniella Manning</u>		DATE Signed (MM/DD/YY): <u>6/23/16</u>		Temp in °C <u>4.6</u>		Y N Y	



# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	<u>Stantec</u>	Report To:		Attention:	
Address:	<u>3875 Arroyo Road Rocklin CA 95765</u>	Copy To:		Company Name:	
Email To:	<u>Neil.dolan@stantec.com</u>	Purchase Order No.:		Address:	
Phone:	<u>916-472-3933 916-738-9458</u>	Project Name:	<u>Sacramento Mangon</u>	Pace Quote Reference:	<u>28776</u>
Requested Due Date/TAT:	<u>Standard</u>	Project Number:	<u>1857503375</u>	Pace Project Manager:	<u>28776 Learneth@stantec.com</u>

ITEM #	Valid Matrix Codes MATRIX CODE DW DRINKING WATER WT WASTE WATER PW WASTE WATER PRODUCT SOIL/SOLID OIL MPE MPE MPE OTHER AR OT TS	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	UNPRESERVED	PRESERVATIVES						ANALYSIS TEST	Y/N	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
					DATE	TIME			H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> SO <sub>4</sub>	Methanol				
		<u>EUI-47</u>	<u>SL</u>		<u>06/23/13</u>	<u>1300</u>	<u>1</u>	<input checked="" type="checkbox"/>									<u>1269026</u>	<u>011</u>
		<u>EUI-52</u>	<u>SL</u>		<u>06/23/13</u>	<u>1320</u>	<u>1</u>	<input checked="" type="checkbox"/>										<u>012</u>
		<u>EUI-55</u>	<u>SL</u>		<u>06/23/13</u>	<u>1335</u>	<u>1</u>	<input checked="" type="checkbox"/>										<u>013</u>

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		SAMPLE CONDITIONS	
	DATE	TIME	DATE	TIME	Temp in °C	Received on Ice (Y/N)
<u>Danielle Mannings</u>	<u>6/23/13</u>	<u>13:50</u>	<u>6/23/13</u>	<u>13:50</u>		
<u>Stantec</u>	<u>6/23/13</u>	<u>14:57</u>	<u>6/23/13</u>	<u>14:57</u>		

Electronic Data Deliverable (EDD):  EQUIS  Excel  State Specific:  CA EDF (Global ID: \_\_\_\_\_)  WA EIM  Other \_\_\_\_\_

Signature of SAMPLER: Danielle Mannings DATE SIGNED (MM/DD/YYYY): 6/23/13

Signature of SAMPLER: Danielle Mannings DATE SIGNED (MM/DD/YYYY): 6/23/13

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**Sample Condition Upon Receipt**

Client Name: Stantec Project #: \_\_\_\_\_

WO#: 1269026



1269026

Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  OnTrac  Other: \_\_\_\_\_  
 Tracking Number: \_\_\_\_\_

Custody Seal on Cooler/Box Present?  Yes  No      Seals Intact?  Yes  No      Optional: Proj. Due Date: \_\_\_\_\_ Proj. Name: \_\_\_\_\_

Packing Material:  Bubble Wrap  Bubble Bags  None  Other: \_\_\_\_\_      Temp Blank?  Yes  No

Thermom. Used:  DA1434  DA2285      Type of Ice:  Wet  Blue  Dry Ice  None  Samples on ice, cooling process has begun

Cooler Temp Read(°C): 3.6      Cooler Temp Corrected(°C): 4.6      Biological Tissue Frozen?  Yes  No  N/A  
 Temp should be above freezing to 6°C      Correction Factor: +1.0      Date and Initials of Person Examining Contents: EJ 062316

				Comments:
Chain of Custody Present?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	1. <u>1 J6PM container per sample.</u>
Chain of Custody Filled Out?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	7.
Sufficient Volume?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	8.
Correct Containers Used?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Containers Intact?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	10.
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels Match COC?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	12.
-Includes Date/Time/ID/Analysis Matrix:				
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	13. <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	Sample #
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	<input type="checkbox"/> Yes	<input type="checkbox"/> No		Initial when completed: _____ Lot # of added preservative: _____
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	14.
Trip Blank Present?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):				

**CLIENT NOTIFICATION/RESOLUTION**

Field Data Required?  Yes  No

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/Resolution: \_\_\_\_\_

Project Manager Review: LA [Signature] Date: 6/23/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

# Chain of Custody



Workorder: 1269026

Workorder Name: Mangan Sacramento

Owner Received Date: 6/23/2016

Results Requested By: 6/30/2016

Report To		Subcontract To		Requested Analysis				
LeeAnn Heathcote Pace Analytical Davis 2795 Second Street Suite 300 Davis, CA 95618 Phone (530) 297-4800		Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612) 607-1700 <i>Billings, MT</i>		1035 3259 LAB USE ONLY				
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Unpreserved	Preserved Containers	Comments
1	EU1-59	PS	6/23/2016 11:15	1269026007	Solid	1		
2	EU1-56	PS	6/23/2016 11:30	1269026008	Solid	1		
3	EU1-51	PS	6/23/2016 11:40	1269026009	Solid	1		
4	EU1-48	PS	6/23/2016 11:55	1269026010	Solid	1		
5	EU1-47	PS	6/23/2016 13:00	1269026011	Solid	1		
6	EU1-52	PS	6/23/2016 13:20	1269026012	Solid	1		
7	EU1-55	PS	6/23/2016 13:35	1269026013	Solid	1		

*Air Dry and Sieve w/ No. 60 mesh screen*

Transfers	Released By	Date/Time	Received By	Date/Time	Received on Ice (Y) or N	Samples Intact (Y) or N
1	<i>[Signature]</i>	06/23/16/1605	<i>[Signature]</i>	0930		
2	<i>[Signature]</i>		<i>[Signature]</i>			
3	<i>[Signature]</i>		<i>[Signature]</i>	06/23/16 0930		

*Return samples to Pace Davis for analysis.*

Cooler Temperature on Receipt *2.1* °C Custody Seal (Y) or N Received on Ice (Y) or N Samples Intact (Y) or N

\*\*\*In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.  
This chain of custody is considered complete as is since this information is available in the owner laboratory.


*4.6°C*



**Sample Condition Upon Receipt**

Client Name: Pace-Dorris

Project #: **WO# : 10353259**



10353259

Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  Other: \_\_\_\_\_

Tracking Number: 776596954476

Custody Seal on Cooler/Box Present?  Yes  No    Seals Intact?  Yes  No    Optional: Proj. Due Date: \_\_\_\_\_ Proj. Name: \_\_\_\_\_

Packing Material:  Bubble Wrap  Bubble Bags  None  Other: \_\_\_\_\_    Temp Blank?  Yes  No

Thermometer Used:  13830045  NA    Type of Ice:  Wet  Blue  None  Samples on ice, cooling process has begun

Cooler Temp Read: 2.0

Date and Initials of Person Examining Contents: NDW 6/24/16

Cooler Temp Corrected: 2.1

Biological Tissue Frozen?  Yes  No

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	3.
Sampler Name and Signature on COC?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	7. <u>Due 6/30/16</u>
Sufficient Volume?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	10.
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	12.
-Includes Date/Time/ID/Analysis Matrix: <u>Soil</u>				
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	Sample #
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	14. Initial when completed: _____
Trip Blank Present?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>NA</u>				

**CLIENT NOTIFICATION/RESOLUTION**

Field Data Required?  Yes  No

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/Resolution: \_\_\_\_\_

Project Manager Review: [Signature]

Date: 6/24/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

**Sample Condition Upon Receipt**

Client Name: Spotec Project #: \_\_\_\_\_

Courier:  Fed Ex  UPS  USPS  Client

Commercial  Pace  OnTrac  Other: \_\_\_\_\_

Tracking Number: 6752 4206 9250

Custody Seal on Cooler/Box Present?  Yes  No      Seals Intact?  Yes  No

Optional: Proj. Due Date: \_\_\_\_\_ Proj. Name: \_\_\_\_\_

Packing Material:  Bubble Wrap  Bubble Bags  None  Other: \_\_\_\_\_

Temp Blank?  Yes  No

Thermom. Used:  DA1434  DA2285      Type of Ice:  Wet  Blue  Dry Ice  None  Samples on ice, cooling process has begun

Cooler Temp Read(°C): 4.6 Cooler Temp Corrected(°C): 5.6

Biological Tissue Frozen?  Yes  No  N/A

Temp should be above freezing to 6°C      Correction Factor: +1.0      Date and Initials of Person Examining Contents: guy 062816

		Comments:
Chain of Custody Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1. <u>Return samples from</u>
Chain of Custody Filled Out?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>Billing (Pace) for aster</u>
Chain of Custody Relinquished?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3. <u>sterling</u>
Sampler Name and/or Signature on COC?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels Match COC?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes Date/Time/ID/Analysis Matrix:		
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl<2; NaOH>9 Sulfide, NaOH>12 Cyanide)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Sample #
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed: _____ Lot # of added preservative: _____
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

**CLIENT NOTIFICATION/RESOLUTION**

Field Data Required?  Yes  No

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/Resolution: \_\_\_\_\_

Project Manager Review: La Neashote

Date: 7/1/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e out of hold, incorrect preservative, out of temp, incorrect containers)