ANALYTICAL REPORT

June 13, 2016

Portnoy Environmental

Sample Delivery Group:	L808314
Samples Received:	12/05/2015
Project Number:	MT. VERNON
Description:	Mt. Vernon Compressor Station
Site:	MT. VERNON
Report To:	Alan Hopkins and NWPL Team 1414 W. Sam Houston Pkwy. N., Suite 170 Houston, TX 77043

Entire Report Reviewed By:

Darren Reeder
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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MV-00M-70:30 L808314-01 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837904	1	12/23/15 12:07	12/27/15 23:51	LTB
Total Solids by Method 2540 G-2011	WG838056	1	12/23/15 12:19	12/23/15 12:37	MEL

MV-00R120:30 L808314-02 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837904	1	12/23/15 12:07	12/28/15 00:06	LTB
Total Solids by Method 2540 G-2011	WG838056	1	12/23/15 12:19	12/23/15 12:37	MEL

MV-00W-70:30 L808314-03 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837904	1	12/23/15 12:07	12/28/15 00:09	LTB
Total Solids by Method 2540 G-2011	WG838056	1	12/23/15 12:19	12/23/15 12:37	MEL

MV-00W-80:30 L808314-04 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837904	1	12/23/15 12:07	12/28/15 00:18	LTB
Total Solids by Method 2540 G-2011	WG838056	1	12/23/15 12:19	12/23/15 12:37	MEL

MV-00W-90:30 L808314-05 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837904	1	12/23/15 12:07	12/28/15 00:21	LTB
Total Solids by Method 2540 G-2011	WG838056	1	12/23/15 12:19	12/23/15 12:37	MEL

MV-00X111:30 L808314-06 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837904	1	12/23/15 12:07	12/28/15 00:24	LTB
Total Solids by Method 2540 G-2011	WG838056	1	12/23/15 12:19	12/23/15 12:37	MEL

MV-00Z106:30 L808314-07 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837904	1	12/23/15 12:07	12/28/15 00:27	LTB
Total Solids by Method 2540 G-2011	WG838056	1	12/23/15 12:19	12/23/15 12:37	MEL

MV-0B96:30 L808314-08 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837904	1	12/23/15 12:07	12/28/15 00:30	LTB
Total Solids by Method 2540 G-2011	WG838056	1	12/23/15 12:19	12/23/15 12:37	MEL

MV-0B117:30 L808314-09 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837904	1	12/23/15 12:07	12/28/15 00:33	LTB
Total Solids by Method 2540 G-2011	WG838056	1	12/23/15 12:19	12/23/15 12:37	MEL

MV-0D92:30 L808314-10 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837904	1	12/23/15 12:07	12/28/15 00:36	LTB
Total Solids by Method 2540 G-2011	WG838056	1	12/23/15 12:19	12/23/15 12:37	MEL

MV-0G16:30 L808314-11 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837904	1	12/23/15 12:07	12/28/15 00:39	LTB
Total Solids by Method 2540 G-2011	WG838057	1	12/23/15 14:07	12/23/15 14:17	MEL

MV-0G20:30 L808314-12 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837904	1	12/23/15 12:07	12/28/15 00:42	LTB
Total Solids by Method 2540 G-2011	WG838057	1	12/23/15 14:07	12/23/15 14:17	MEL

MV-0G24:30 L808314-13 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837904	1	12/23/15 12:07	12/28/15 00:45	LTB
Total Solids by Method 2540 G-2011	WG838057	1	12/23/15 14:07	12/23/15 14:17	MEL

MV-0G-60:30 L808314-14 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837904	1	12/23/15 12:07	12/28/15 00:54	LTB
Total Solids by Method 2540 G-2011	WG838057	1	12/23/15 14:07	12/23/15 14:17	MEL

MV-0G-70:30 L808314-15 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837904	1	12/23/15 12:07	12/28/15 00:57	LTB
Total Solids by Method 2540 G-2011	WG838057	1	12/23/15 14:07	12/23/15 14:17	MEL

MV-0G-80:30 L808314-16 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837904	1	12/23/15 12:07	12/28/15 01:00	LTB
Total Solids by Method 2540 G-2011	WG838057	1	12/23/15 14:07	12/23/15 14:17	MEL

MV-0G-90:30 L808314-17 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837904	1	12/23/15 12:07	12/28/15 01:03	LTB
Total Solids by Method 2540 G-2011	WG838057	1	12/23/15 14:07	12/23/15 14:17	MEL

MV-0H83:30 L808314-18 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837904	1	12/23/15 12:07	12/28/15 01:06	LTB
Total Solids by Method 2540 G-2011	WG838057	1	12/23/15 14:07	12/23/15 14:17	MEL

MV-0J117:30 L808314-19 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837904	1	12/23/15 12:07	12/28/15 01:08	LTB
Total Solids by Method 2540 G-2011	WG838057	1	12/23/15 14:07	12/23/15 14:17	MEL

MV-0K36:30 L808314-20 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837904	1	12/23/15 12:07	12/28/15 01:11	LTB
Total Solids by Method 2540 G-2011	WG838057	1	12/23/15 14:07	12/23/15 14:17	MEL

MV-0K40:30 L808314-21 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837910	1	12/23/15 12:09	12/27/15 22:15	LTB
Total Solids by Method 2540 G-2011	WG838058	1	12/23/15 13:17	12/23/15 13:25	MEL

MV-0K44:30 L808314-22 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837910	1	12/23/15 12:09	12/27/15 22:29	LTB
Total Solids by Method 2540 G-2011	WG838058	1	12/23/15 13:17	12/23/15 13:25	MEL

MV-0L120:30 L808314-23 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837910	1	12/23/15 12:09	12/27/15 22:32	LTB
Total Solids by Method 2540 G-2011	WG838058	1	12/23/15 13:17	12/23/15 13:25	MEL

MV-0N86:30 L808314-24 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837910	1	12/23/15 12:09	12/27/15 22:41	LTB
Total Solids by Method 2540 G-2011	WG838058	1	12/23/15 13:17	12/23/15 13:25	MEL

MV-0N90:30 L808314-25 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837910	1	12/23/15 12:09	12/27/15 22:44	LTB
Total Solids by Method 2540 G-2011	WG838058	1	12/23/15 13:17	12/23/15 13:25	MEL

MV-0Q83:30 L808314-26 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837910	1	12/23/15 12:09	12/27/15 22:47	LTB
Total Solids by Method 2540 G-2011	WG838058	1	12/23/15 13:17	12/23/15 13:25	MEL

MV-0S84:30 L808314-27 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837910	1	12/23/15 12:09	12/27/15 22:50	LTB
Total Solids by Method 2540 G-2011	WG838058	1	12/23/15 13:17	12/23/15 13:25	MEL

MV-0S87:30 L808314-28 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837910	1	12/23/15 12:09	12/27/15 22:53	LTB
Total Solids by Method 2540 G-2011	WG838058	1	12/23/15 13:17	12/23/15 13:25	MEL

MV-AE-95:30 L808314-29 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837910	1	12/23/15 12:09	12/27/15 22:56	LTB
Total Solids by Method 2540 G-2011	WG838058	1	12/23/15 13:17	12/23/15 13:25	MEL

MV-AF25:30 L808314-30 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837910	1	12/23/15 12:09	12/27/15 22:59	LTB
Total Solids by Method 2540 G-2011	WG838058	1	12/23/15 13:17	12/23/15 13:25	MEL

MV-AF28:30 L808314-31 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837910	1	12/23/15 12:09	12/27/15 23:02	LTB
Total Solids by Method 2540 G-2011	WG838059	1	12/23/15 13:07	12/23/15 13:15	MEL

MV-AI-85:30 L808314-32 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837910	1	12/23/15 12:09	12/27/15 23:05	LTB
Total Solids by Method 2540 G-2011	WG838059	1	12/23/15 13:07	12/23/15 13:15	MEL

MV-AI-91:30 L808314-33 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837910	1	12/23/15 12:09	12/27/15 23:08	LTB
Total Solids by Method 2540 G-2011	WG838059	1	12/23/15 13:07	12/23/15 13:15	MEL

MV-AN04:30 L808314-34 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837910	1	12/23/15 12:09	12/27/15 23:16	LTB
Total Solids by Method 2540 G-2011	WG838059	1	12/23/15 13:07	12/23/15 13:15	MEL

MV-BA07:30 L808314-35 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837910	1	12/23/15 12:09	12/27/15 23:19	LTB
Total Solids by Method 2540 G-2011	WG838059	1	12/23/15 13:07	12/23/15 13:15	MEL

MV-BE11:30 L808314-36 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837910	1	12/23/15 12:09	12/27/15 23:22	LTB
Total Solids by Method 2540 G-2011	WG838059	1	12/23/15 13:07	12/23/15 13:15	MEL

MV-BP12:30 L808314-37 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837910	1	12/23/15 12:09	12/27/15 23:25	LTB
Total Solids by Method 2540 G-2011	WG838059	1	12/23/15 13:07	12/23/15 13:15	MEL

MV-BT12:30 L808314-38 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837910	1	12/23/15 12:09	12/27/15 23:28	LTB
Total Solids by Method 2540 G-2011	WG838059	1	12/23/15 13:07	12/23/15 13:15	MEL

MV-CC-96:30 L808314-39 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837910	1	12/23/15 12:09	12/27/15 23:31	LTB
Total Solids by Method 2540 G-2011	WG838059	1	12/23/15 13:07	12/23/15 13:15	MEL

MV-CM-95:30 L808314-40 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837910	1	12/23/15 12:09	12/27/15 23:34	LTB
Total Solids by Method 2540 G-2011	WG838059	1	12/23/15 13:07	12/23/15 13:15	MEL

MV-CO-88:30 L808314-41 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837908	1	12/23/15 14:41	12/23/15 18:17	ST
Total Solids by Method 2540 G-2011	WG838060	1	12/23/15 12:56	12/23/15 13:05	MEL

MV-CO-91:30 L808314-42 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837908	1	12/23/15 14:41	12/23/15 18:20	ST
Total Solids by Method 2540 G-2011	WG838060	1	12/23/15 12:56	12/23/15 13:05	MEL

MV-CQ-86:30 L808314-43 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837908	1	12/23/15 14:41	12/23/15 18:23	ST
Total Solids by Method 2540 G-2011	WG838060	1	12/23/15 12:56	12/23/15 13:05	MEL

MV-CQ-89:30 L808314-44 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837908	1	12/23/15 14:41	12/23/15 18:26	ST
Total Solids by Method 2540 G-2011	WG838060	1	12/23/15 12:56	12/23/15 13:05	MEL

MV-CQ-92:30 L808314-45 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837908	1	12/23/15 14:41	12/23/15 18:29	ST
Total Solids by Method 2540 G-2011	WG838060	1	12/23/15 12:56	12/23/15 13:05	MEL

MV-CT-83:30 L808314-46 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837908	1	12/23/15 14:41	12/23/15 18:32	ST
Total Solids by Method 2540 G-2011	WG838060	1	12/23/15 12:56	12/23/15 13:05	MEL

MV-CT-87:30 L808314-47 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837908	1	12/23/15 14:41	12/23/15 18:43	ST
Total Solids by Method 2540 G-2011	WG838060	1	12/23/15 12:56	12/23/15 13:05	MEL

MV-J-70:30 L808314-48 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837908	1	12/23/15 14:41	12/23/15 18:46	ST
Total Solids by Method 2540 G-2011	WG838060	1	12/23/15 12:56	12/23/15 13:05	MEL

MV-J-80:30 L808314-49 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837908	1	12/23/15 14:41	12/23/15 18:49	ST
Total Solids by Method 2540 G-2011	WG838060	1	12/23/15 12:56	12/23/15 13:05	MEL

MV-0P107:90 L808314-50 Solid

Collected by	Collected date/time	Received date/time
	12/02/15 00:00	12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837908	1	12/23/15 14:41	12/23/15 18:52	ST
Total Solids by Method 2540 G-2011	WG838060	1	12/23/15 12:56	12/23/15 13:05	MEL

MV-0P107:120 L808314-51 Solid

Collected by	Collected date/time	Received date/time
	12/02/15 00:00	12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837908	1	12/23/15 14:41	12/23/15 18:55	ST
Total Solids by Method 2540 G-2011	WG838174	1	12/23/15 16:36	12/23/15 16:44	MEL

MV-0Q-90:30 L808314-52 Solid

Collected by	Collected date/time	Received date/time
	12/02/15 00:00	12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837908	1	12/23/15 14:41	12/23/15 18:58	ST
Total Solids by Method 2540 G-2011	WG838174	1	12/23/15 16:36	12/23/15 16:44	MEL

MV-BA11:60 L808314-53 Solid

Collected by	Collected date/time	Received date/time
	12/02/15 00:00	12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG837908	1	12/23/15 14:41	12/23/15 19:01	ST
Total Solids by Method 2540 G-2011	WG838174	1	12/23/15 16:36	12/23/15 16:44	MEL

All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Darren Reeder
Technical Service Representative

Sample Handling and Receiving

The following samples were prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.

ESC Sample ID	Project Sample ID	Method
L808314-01	MV-00M-70:30	2540 G-2011
L808314-02	MV-00R120:30	2540 G-2011
L808314-03	MV-00W-70:30	2540 G-2011
L808314-04	MV-00W-80:30	2540 G-2011
L808314-05	MV-00W-90:30	2540 G-2011
L808314-06	MV-00X111:30	2540 G-2011
L808314-07	MV-00Z106:30	2540 G-2011
L808314-08	MV-0B96:30	2540 G-2011
L808314-09	MV-0B117:30	2540 G-2011
L808314-10	MV-0D92:30	2540 G-2011
L808314-11	MV-0G16:30	2540 G-2011
L808314-12	MV-0G20:30	2540 G-2011
L808314-13	MV-0G24:30	2540 G-2011
L808314-14	MV-0G-60:30	2540 G-2011
L808314-15	MV-0G-70:30	2540 G-2011
L808314-16	MV-0G-80:30	2540 G-2011
L808314-17	MV-0G-90:30	2540 G-2011
L808314-18	MV-0H83:30	2540 G-2011
L808314-19	MV-0J117:30	2540 G-2011
L808314-20	MV-0K36:30	2540 G-2011
L808314-21	MV-0K40:30	2540 G-2011
L808314-22	MV-0K44:30	2540 G-2011
L808314-23	MV-0L120:30	2540 G-2011
L808314-24	MV-0N86:30	2540 G-2011
L808314-25	MV-0N90:30	2540 G-2011
L808314-26	MV-0Q83:30	2540 G-2011
L808314-27	MV-0S84:30	2540 G-2011
L808314-28	MV-0S87:30	2540 G-2011
L808314-29	MV-AE-95:30	2540 G-2011
L808314-30	MV-AF25:30	2540 G-2011
L808314-31	MV-AF28:30	2540 G-2011
L808314-32	MV-AI-85:30	2540 G-2011
L808314-33	MV-AI-91:30	2540 G-2011
L808314-34	MV-AN04:30	2540 G-2011
L808314-35	MV-BA07:30	2540 G-2011
L808314-36	MV-BE11:30	2540 G-2011
L808314-37	MV-BP12:30	2540 G-2011
L808314-38	MV-BT12:30	2540 G-2011
L808314-39	MV-CC-96:30	2540 G-2011
L808314-40	MV-CM-95:30	2540 G-2011
L808314-41	MV-CO-88:30	2540 G-2011
L808314-42	MV-CO-91:30	2540 G-2011
L808314-43	MV-CQ-86:30	2540 G-2011
L808314-44	MV-CQ-89:30	2540 G-2011
L808314-45	MV-CQ-92:30	2540 G-2011
L808314-46	MV-CT-83:30	2540 G-2011
L808314-47	MV-CT-87:30	2540 G-2011
L808314-48	MV-J-70:30	2540 G-2011
L808314-49	MV-J-80:30	2540 G-2011
L808314-50	MV-0P107:90	2540 G-2011
L808314-51	MV-0P107:120	2540 G-2011
L808314-52	MV-0Q-90:30	2540 G-2011
L808314-53	MV-BA11:60	2540 G-2011

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	73.4		1	12/23/2015 12:37	WG838056

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	91.4		1.36	1	12/27/2015 23:51	WG837904

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	74.2		1	12/23/2015 12:37	WG838056

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	69.0		1.35	1	12/28/2015 00:06	WG837904

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.9		1	12/23/2015 12:37	WG838056

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	92.4		1.27	1	12/28/2015 00:09	WG837904

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.5		1	12/23/2015 12:37	WG838056

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	83.0		1.24	1	12/28/2015 00:18	WG837904

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	73.9		1	12/23/2015 12:37	WG838056

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	81.2		1.35	1	12/28/2015 00:21	WG837904

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	71.5		1	12/23/2015 12:37	WG838056

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	84.0		1.40	1	12/28/2015 00:24	WG837904

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.4		1	12/23/2015 12:37	WG838056

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	85.6		1.24	1	12/28/2015 00:27	WG837904

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.1		1	12/23/2015 12:37	WG838056

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	79.3		1.28	1	12/28/2015 00:30	WG837904

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	60.6		1	12/23/2015 12:37	WG838056

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	86.3		1.65	1	12/28/2015 00:33	WG837904

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.5		1	12/23/2015 12:37	WG838056

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	89.3		1.31	1	12/28/2015 00:36	WG837904

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.1		1	12/23/2015 14:17	WG838057

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	71.3		1.33	1	12/28/2015 00:39	WG837904

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.7		1	12/23/2015 14:17	WG838057

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	70.5		1.30	1	12/28/2015 00:42	WG837904

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.1		1	12/23/2015 14:17	WG838057

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	67.7		1.33	1	12/28/2015 00:45	WG837904

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.3		1	12/23/2015 14:17	WG838057

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	191		1.23	1	12/28/2015 00:54	WG837904

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.4		1	12/23/2015 14:17	WG838057

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	194		1.11	1	12/28/2015 00:57	WG837904

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.9		1	12/23/2015 14:17	WG838057

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	111		1.16	1	12/28/2015 01:00	WG837904

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.6		1	12/23/2015 14:17	WG838057

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	96.8		1.26	1	12/28/2015 01:03	WG837904

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.6		1	12/23/2015 14:17	WG838057

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	110		1.08	1	12/28/2015 01:06	WG837904

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.6		1	12/23/2015 14:17	WG838057

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	121		1.29	1	12/28/2015 01:08	WG837904

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	74.2		1	12/23/2015 14:17	WG838057

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	80.7		1.35	1	12/28/2015 01:11	WG837904

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.2		1	12/23/2015 13:25	WG838058

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	73.3		1.31	1	12/27/2015 22:15	WG837910

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.1		1	12/23/2015 13:25	WG838058

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	89.6		1.30	1	12/27/2015 22:29	WG837910

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	74.4		1	12/23/2015 13:25	WG838058

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	82.7		1.34	1	12/27/2015 22:32	WG837910

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.9		1	12/23/2015 13:25	WG838058

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	73.0		1.27	1	12/27/2015 22:41	WG837910

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.3		1	12/23/2015 13:25	WG838058

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	104		1.31	1	12/27/2015 22:44	WG837910

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.3		1	12/23/2015 13:25	WG838058

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	55.5		1.23	1	12/27/2015 22:47	WG837910

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.7		1	12/23/2015 13:25	WG838058

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	223		1.24	1	12/27/2015 22:50	WG837910

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.5		1	12/23/2015 13:25	WG838058

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	222		1.09	1	12/27/2015 22:53	WG837910

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.6	J3	1	12/23/2015 13:25	WG838058

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	85.4		1.23	1	12/27/2015 22:56	WG837910

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.3		1	12/23/2015 13:25	WG838058

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	268		1.31	1	12/27/2015 22:59	WG837910

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	72.9		1	12/23/2015 13:15	WG838059

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	77.5		1.37	1	12/27/2015 23:02	WG837910

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.3		1	12/23/2015 13:15	WG838059

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	100		1.33	1	12/27/2015 23:05	WG837910

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	72.4		1	12/23/2015 13:15	WG838059

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	83.0		1.38	1	12/27/2015 23:08	WG837910

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.7		1	12/23/2015 13:15	WG838059

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	131		1.17	1	12/27/2015 23:16	WG837910

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	74.2		1	12/23/2015 13:15	WG838059

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	97.1		1.35	1	12/27/2015 23:19	WG837910

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.8		1	12/23/2015 13:15	WG838059

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	115		1.28	1	12/27/2015 23:22	WG837910

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.2		1	12/23/2015 13:15	WG838059

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	92.3		1.28	1	12/27/2015 23:25	WG837910

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.4		1	12/23/2015 13:15	WG838059

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	93.5		1.31	1	12/27/2015 23:28	WG837910

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.3		1	12/23/2015 13:15	WG838059

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	90.8		1.33	1	12/27/2015 23:31	WG837910

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.8		1	12/23/2015 13:15	WG838059

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	65.5		1.11	1	12/27/2015 23:34	WG837910

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.4		1	12/23/2015 13:05	WG838060

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	66.8		1.23	1	12/23/2015 18:17	WG837908

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.9		1	12/23/2015 13:05	WG838060

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	72.5		1.10	1	12/23/2015 18:20	WG837908

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.6		1	12/23/2015 13:05	WG838060

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	119		1.14	1	12/23/2015 18:23	WG837908

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.6		1	12/23/2015 13:05	WG838060

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	192		1.14	1	12/23/2015 18:26	WG837908

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.4		1	12/23/2015 13:05	WG838060

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	138		1.23	1	12/23/2015 18:29	WG837908

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.7		1	12/23/2015 13:05	WG838060

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	142		1.20	1	12/23/2015 18:32	WG837908

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	73.7		1	12/23/2015 13:05	WG838060

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	63.6		1.36	1	12/23/2015 18:43	WG837908

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.3		1	12/23/2015 13:05	WG838060

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	76.7		1.29	1	12/23/2015 18:46	WG837908

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.0		1	12/23/2015 13:05	WG838060

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	161		1.09	1	12/23/2015 18:49	WG837908

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	74.5		1	12/23/2015 13:05	WG838060

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	72.7		1.34	1	12/23/2015 18:52	WG837908

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	68.7		1	12/23/2015 16:44	WG838174

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	73.3		1.46	1	12/23/2015 18:55	WG837908

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.6		1	12/23/2015 16:44	WG838174

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	78.3		1.29	1	12/23/2015 18:58	WG837908

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.2		1	12/23/2015 16:44	WG838174

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	35.7		1.16	1	12/23/2015 19:01	WG837908

Method Blank (MB)

(MB) R3102268-1 12/23/15 12:37

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000400			

L808314-02 Original Sample (OS) • Duplicate (DUP)

(OS) L808314-02 12/23/15 12:37 • (DUP) R3102268-3 12/23/15 12:37

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	74.2	74.5	1	0.334		5

Laboratory Control Sample (LCS)

(LCS) R3102268-2 12/23/15 12:37

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	99.9	85.0-115	

Method Blank (MB)

(MB) R3102274-1 12/23/15 14:17

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L808314-11 Original Sample (OS) • Duplicate (DUP)

(OS) L808314-11 12/23/15 14:17 • (DUP) R3102274-3 12/23/15 14:17

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	75.1	75.1	1	0.0308		5

Laboratory Control Sample (LCS)

(LCS) R3102274-2 12/23/15 14:17

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3102273-1 12/23/15 13:25

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000800			

L808314-29 Original Sample (OS) • Duplicate (DUP)

(OS) L808314-29 12/23/15 13:25 • (DUP) R3102273-3 12/23/15 13:25

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	81.6	75.0	1	8.40	J3	5

Laboratory Control Sample (LCS)

(LCS) R3102273-2 12/23/15 13:25

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3102272-1 12/23/15 13:15

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000800			

L808314-31 Original Sample (OS) • Duplicate (DUP)

(OS) L808314-31 12/23/15 13:15 • (DUP) R3102272-3 12/23/15 13:15

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	72.9	71.0	1	2.59		5

Laboratory Control Sample (LCS)

(LCS) R3102272-2 12/23/15 13:15

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3102271-1 12/23/15 13:05

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000400			

L808314-46 Original Sample (OS) • Duplicate (DUP)

(OS) L808314-46 12/23/15 13:05 • (DUP) R3102271-3 12/23/15 13:05

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	83.7	82.2	1	1.80		5

Laboratory Control Sample (LCS)

(LCS) R3102271-2 12/23/15 13:05

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3102282-1 12/23/15 16:44

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00120			

Original Sample (OS) • Duplicate (DUP)

(OS) • (DUP) R3102282-3 12/23/15 16:44

Analyte	Original Result	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids		74.5	1	2.92		5

Laboratory Control Sample (LCS)

(LCS) R3102282-2 12/23/15 16:44

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3102720-1 12/27/15 23:43

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chromium	U		0.14	1.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3102720-2 12/27/15 23:46 • (LCSD) R3102720-3 12/27/15 23:48

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chromium	100	103	99.9	103	100	80-120			3	20

L808314-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L808314-01 12/27/15 23:51 • (MS) R3102720-6 12/28/15 00:00 • (MSD) R3102720-7 12/28/15 00:03

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry)	MSD Result (dry)	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium	100	91.4			93	87	1	75-125			4	20

Method Blank (MB)

(MB) R3102246-4 12/23/15 17:29

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chromium	U		0.14	1.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3102246-5 12/23/15 17:32 • (LCSD) R3102246-6 12/23/15 17:34

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chromium	100	101	96.6	101	97	80-120			4	20

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) • (MS) R3102246-9 12/23/15 17:46 • (MSD) R3102246-10 12/23/15 17:49

Analyte	Spike Amount mg/kg	Original Result	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium	100		101	102	92	93	1	75-125			1	20

Method Blank (MB)

(MB) R3102719-1 12/27/15 22:07

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chromium	U		0.14	1.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3102719-2 12/27/15 22:09 • (LCSD) R3102719-3 12/27/15 22:12

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chromium	100	95.0	96.8	95	97	80-120			2	20

L808314-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L808314-21 12/27/15 22:15 • (MS) R3102719-6 12/27/15 22:23 • (MSD) R3102719-7 12/27/15 22:26

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry)	MSD Result (dry)	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium	100	73.3			98	92	1	75-125			4	20

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Rec.	Recovery.

Qualifier	Description
J3	The associated batch QC was outside the established quality control range for precision.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

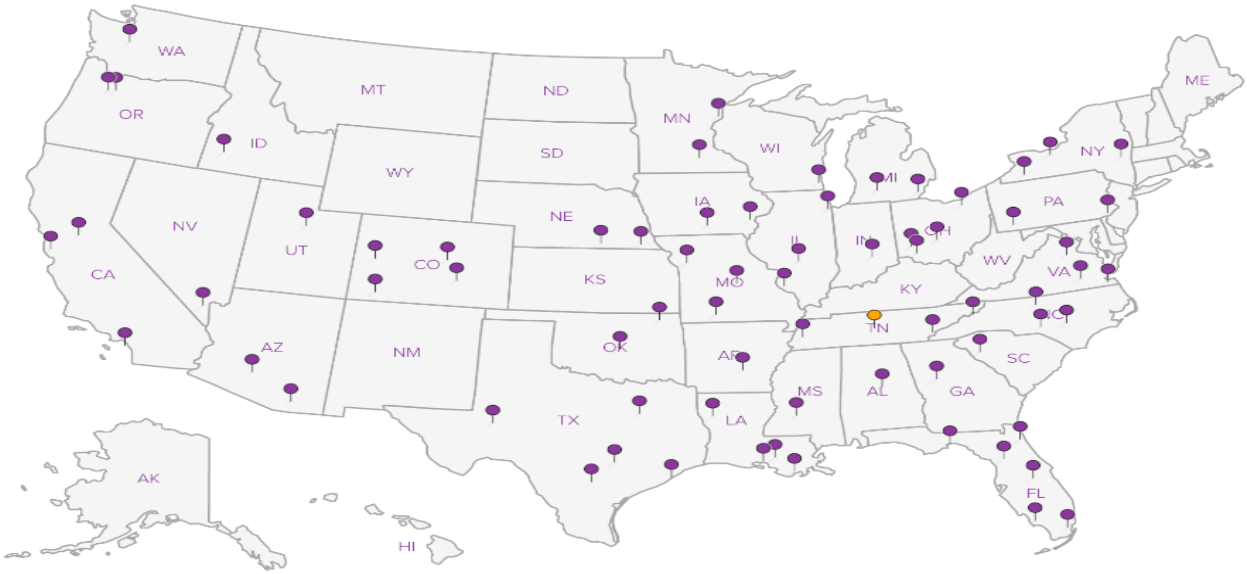
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Company Name/Address: **Portnoy Environmental, Inc**

Billing Information:

Report to: **Alan Hopkins**

Email To: **ahopkins@pei-tx.com**

Project Description: **Mt. Vernon Compressor Station**

City/State Collected:

Phone:

Fax:

Client Project # **Mt. Vernon**

Lab Project #

Collected by (print):

Site/Facility ID # **Mt. Vernon**

P.O. #

Collected by (signature):

Immediately Packed on ice N ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No ___Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 1 of ___

ESC LABORATORY SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L805954-N
A100
L803314

Acctnum:
Template:
Prelogin:
TSR:
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Chromium	Hold	Rem./Contaminant	Sample # (lab only)
MV-OJ69:0	Grab	SS		12/2/15		1	X			-01
MV-OJ69:18	Grab	SS		12/2/15		1	X			-02
MV-OJ69:30	Grab	SS		12/2/15		1		X		
MV-00M-70:0	Grab	SS		12/2/15		1	X			-03
MV-00M-70:18	Grab	SS		12/2/15		1	X			-04
MV-00M-70:30	Grab	SS		12/2/15		1		X		-01
MV-00M-80:0	Grab	SS		12/2/15		1	X			-05
MV-00M-80:18	Grab	SS		12/2/15		1	X			-06
MV-00M-80:30	Grab	SS		12/2/15		1		X		

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other ___

12-016
12-017
12-018

___ Temp ___
Flow ___ Other ___

Remarks:

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ ___

Temp: Amb °C Bottles Received: 38/48 N

Date: 12/5/15 Time: 0900

Condition: (lab use only) OK

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

Company Name/Address: **Portnoy Environmental, Inc**

Billing Information:

Report to: **Alan Hopkins**

Email To: **ahopkins@pei-tx.com**

Project Description: **Mt. Vernon Compressor Station**

City/State Collected:

Phone:

Fax:

Client Project # **Mt. Vernon**

Lab Project #

Collected by (print):

Site/Facility ID # **Mt. Vernon**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y ____

Rush? (Lab MUST Be Notified)

____ Same Day 200%
____ Next Day 100%
____ Two Day 50%
____ Three Day 25%

Date Results Needed

Email? ___No ___Yes

FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 2 of ___

ESC LABORATORY SCIENCES

YOUR LAB OF CHOICE

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L805951N

Table # L808314

Acctnum:

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Chromium	Hold	Rem./Contaminant	Sample # (lab only)
MV-00R120:0	Grab	SS		12/2/15		1	X			-07
MV-00R120:18	Grab	SS		12/2/15		1	X			-08
MV-00R120:30	Grab	SS		12/2/15		1		X		-02
MV-00R120:60	Grab	SS		12/2/15		1		X		
MV-00V116:0	Grab	SS		12/2/15		1	X			-09
MV-00V116:18	Grab	SS		12/2/15		1	X			-10
MV-00V116:30	Grab	SS		12/2/15		1		X		
MV-00W-70:0	Grab	SS		12/2/15		1	X			-11
MV-00W-70:18	Grab	SS		12/2/15		1	X			-12
MV-00W-70:30	Grab	SS		12/2/15				X		-03

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: Amb °C Bottles Received: 38/48N

Date: 12/5/15 Time: 0900

Condition: (lab use only) 02

COC Seal Intact: ____Y ____N ____NA

pH Checked: NCF:

Company Name/Address:	Billing Information:	Analysis / Container / Preservative	Chain of Custody Page 3 of ___
Portnoy Environmental, Inc			ESC LABS SCIENCES YOUR LAB OF CHOICE 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859

Report to:	Email To:
Alan Hopkins	**ahopkins@pei-tx.com**

Project Description: **Mt. Vernon Compressor Station**	City/State Collected:	L # ~~L805954~~ N
Phone: Fax:	Client Project # **Mt. Vernon**	Lab Project #	Table # L808314
Collected by (print):	Site/Facility ID # **Mt. Vernon**	P.O. #	Acctnum:
Collected by (signature): Immediately Packed on Ice N ____ Y ____	***Rush?*** (Lab MUST Be Notified) ___ Same Day .....200% ___ Next Day .....100% ___ Two Day .....50% ___ Three Day 25%	Date Results Needed Email? ___No ___Yes FAX? ___No ___Yes	Template: Prelogin: TSR: PB: Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Chromium	Hold	Rem./Contaminant	Sample # (lab only)
MV-00W-70:48	Grab	SS		12/2/15		1		X		
MV-00W-80:0	Grab	SS		12/2/15		1	X			~~-13~~
MV-00W-80:18	Grab	SS		12/2/15		1	X			~~-14~~
MV-00W-80:30	Grab	SS		12/2/15		1		X		-04
MV-00W-80:48	Grab	SS		12/2/15		1		X		
MV-00W-90:0	Grab	SS		12/2/15		1	X			~~-15~~
MV-00W-90:18	Grab	SS		12/2/15		1	X			~~-16~~
MV-00W-90:30	Grab	SS		12/2/15		1		X		-05
MV-00W-90:48	Grab	SS		12/2/15		1		X		

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____	Condition: (lab use only)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb °C 38V 4T^N Bottles Received:	COC Seal Intact: ___Y ___N ___NA
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 12/5/15 Time: 09 00	pH Checked: / NCF:

Company Name/Address: **Portnoy Environmental, Inc**

Billing Information:

Analysis / Container / Preservative

Chain of Custody Page 4 of ___

ESC LABORATORY SCIENCES — YOUR LAB OF CHOICE

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Report to: **Alan Hopkins**

Email To: **ahopkins@pei-tx.com**

Project Description: **Mt. Vernon Compressor Station**

City/State Collected:

Phone:
Fax:

Client Project # **Mt. Vernon**

Lab Project #

Collected by (print):

Site/Facility ID # **Mt. Vernon**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y ____

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No ___Yes
FAX? ___No ___Yes

L # L805954

Table # L808314

Acctnum:
Template:
Prelogin:
TSR:
PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Chromium	Hold	Rem./Contaminant	Sample # (lab only)
MV-00X111:0	Grab	SS		12/2/15		1	X			~~17~~
MV-00X111:18	Grab	SS		12/2/15		1	X			~~18~~
MV-00X111:30	Grab	SS		12/2/15		1		X		-06
MV-00Z106:0	Grab	SS		12/2/15		1	X			~~19~~
MV-00Z106:18	Grab	SS		12/2/15		1	X			~~20~~
MV-00Z106:30	Grab	SS		12/2/15		1		X		-07
MV-0B96:0	Grab	SS		12/2/15		1	X			~~21~~
MV-0B96:18	Grab	SS		12/2/15		1	X			~~22~~
MV-0B96:30	Grab	SS		12/2/15		1		X		-08
MV-0B96:48	Grab	SS		12/2/15		1		X		

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____

Flow _____ Other _____

Remarks:

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: Amb °C Bottles Received: 38448 N

Date: 12/5/15 Time: 0900

Condition: (lab use only)

COC Seal Intact: ____ Y ____ N ____ NA

pH Checked: NCF:

Company Name/Address: **Portnoy Environmental, Inc**

Billing Information:

Report to: **Alan Hopkins**

Email To: **ahopkins@pei-tx.com**

Project Description: **Mt. Vernon Compressor Station**

City/State Collected:

Phone:

Fax:

Client Project # **Mt. Vernon**

Lab Project #

Collected by (print):

Site/Facility ID # **Mt. Vernon**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y ____

Rush? (Lab MUST Be Notified)

____ Same Day 200%
____ Next Day 100%
____ Two Day 50%
____ Three Day 25%

Date Results Needed

Email? ___No __Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 5 of ___

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Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L # L805954

Table # 130831N

Acctnum:
Template:
Prelogin:
TSR:
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Chromium	Hold	Rem./Contaminant	Sample # (lab only)
MV-0B117:0	Grab	SS		12/2/15		1	X			~~23~~
MV-0B117:18	Grab	SS		12/2/15		1	X			~~24~~
MV-0B117:30	Grab	SS		12/2/15		1		X		-09
MV-0D92:0	Grab	SS		12/2/15		1	X			~~25~~
MV-0D92:18	Grab	SS		12/2/15		1	X			~~26~~
MV-0D92:30	Grab	SS		12/2/15		1		X		-10
MV-0D92:60	Grab	SS		12/2/15		1		X		
MV-0D119:0	Grab	SS		12/2/15		1	X			~~27~~
MV-0D119:18	Grab	SS		12/2/15		1	X			~~28~~

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: Amb °C 384 Bottles Received: 8 N

Date: 12/5/15 Time: 0900

Condition: (lab use only) OK

COC Seal Intact: ____ Y ____ N ____ NA

pH Checked: NCF:

Company Name/Address:	Billing Information:	Analysis / Container / Preservative	Chain of Custody Page 6 of ___
Portnoy Environmental, Inc			ESC LABS SCIENCES — YOUR LAB OF CHOICE 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859
Report to: **Alan Hopkins**	Email To: **ahopkins@pei-tx.com**		
Project Description: **Mt. Vernon Compressor Station**	City/State Collected:		L# L805954 N
Phone: Fax:	Client Project # **Mt. Vernon**	Lab Project #	Table # L803314
Collected by (print):	Site/Facility ID # **Mt. Vernon**	P.O. #	Acctnum:
Collected by (signature): Immediately Packed on Ice: N ____ Y ____	***Rush?*** (Lab MUST Be Notified) ____ Same Day .....200% ____ Next Day .....100% ____ Two Day .....50% ____ Three Day 25%	Date Results Needed Email? ___No ___Yes FAX? ___No ___Yes	Template: Prelogin: TSR: PB: Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Chromium	Hold	Rem./Contaminant	Sample # (lab only)
MV-0F88:0	Grab	SS		12/2/15		1	X			~~29~~
MV-0F88:18	Grab	SS		12/2/15		1	X			~~30~~
MV-0F88:30	Grab	SS		12/2/15		1		X		
MV-0F88:60	Grab	SS		12/2/15		1		X		
MV-0F121:0	Grab	SS		12/2/15		1	X			~~31~~
MV-0F121:18	Grab	SS		12/2/15		1	X			~~32~~
MV-0G16:0	Grab	SS		12/2/15		1	X			~~33~~
MV-0G16:18	Grab	SS		12/2/15		1	X			~~34~~
MV-0G16:30	Grab	SS		12/2/15		1		X		-11
MV-0G16:60	Grab	SS		12/2/15		1		X		

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: Amb °C 38½ +5N Bottles Received:

Date: 12/5/15 Time: 0900

Condition: (lab use only) ok

COC Seal Intact: ____Y ____N ____NA

pH Checked: NCF:

Company Name/Address: **Portnoy Environmental, Inc**

Billing Information:

Report to: **Alan Hopkins**

Email To: **ahopkins@pei-tx.com**

Project Description: **Mt. Vernon Compressor Station**

City/State Collected:

Phone:

Fax:

Client Project # **Mt. Vernon**

Lab Project #

Collected by (print):

Site/Facility ID # **Mt. Vernon**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y ____

Rush? (Lab MUST Be Notified)

____ Same Day 200%
____ Next Day 100%
____ Two Day 50%
____ Three Day 25%

Date Results Needed

Email? ___No ___Yes

FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

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Phone: 800-767-5859
Fax: 615-758-5859

L# ~~L805954~~ N

Table # L808314

Acctnum:

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Chromium	Hold	Rem./Contaminant	Sample # (lab only)
MV-0G20:0	Grab	SS		12/2/15		1	X			~~35~~
MV-0G20:18	Grab	SS		12/2/15		1	X			~~36~~
MV-0G20:30	Grab	SS		12/2/15		1		X		-12
MV-0G20:60	Grab	SS		12/2/15		1		X		
MV-0G24:0	Grab	SS		12/2/15		1	X			~~37~~
MV-0G24:18	Grab	SS		12/2/15		1	X			~~38~~
MV-0G24:30	Grab	SS		12/2/15		1		X		-13
MV-0G24:60	Grab	SS		12/2/15		1		X		

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: Amb °C Bottles Received: 38 4 N

Date: 12/5/15 Time: 0900

Condition: OK (lab use only)

COC Seal Intact: ____Y ____N ____NA

pH Checked: NCF:

Company Name/Address: **Portnoy Environmental, Inc**

Billing Information:

Report to: **Alan Hopkins**

Email To: **ahopkins@pei-tx.com**

Project Description: **Mt. Vernon Compressor Station**

City/State Collected:

Phone:

Fax:

Client Project # **Mt. Vernon**

Lab Project #

Collected by (print):

Site/Facility ID # **Mt. Vernon**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y ____

Rush? (Lab MUST Be Notified)
____ Same Day 200%
____ Next Day 100%
____ Two Day 50%
____ Three Day 25%

Date Results Needed

Email? ___No ___Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 8 of ___

ESC LABORATORY SCIENCES
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Mount Juliet, TN 37122
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Phone: 800-767-5859
Fax: 615-758-5859

L# L805954

Table # L805831

Acctnum:

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Chromium	Hold	Rem./Contaminant	Sample # (lab only)
MV-0G35:0	Grab	SS		12/2/15		1	X			~~39~~
MV-0G35:18	Grab	SS		12/2/15		1	X			~~40~~
MV-0G35:30	Grab	SS		12/2/15		1		X		
MV-0G35:60	Grab	SS		12/2/15		1		X		
MV-0G-60:0	Grab	SS		12/2/15		1	X			~~41~~
MV-0G-60:18	Grab	SS		12/2/15		1	X			~~42~~
MV-0G-60:30	Grab	SS		12/2/15		1		X		14
MV-0G-60:60	Grab	SS		12/2/15		1		X		

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____

Flow _____ Other _____

Remarks:

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: Amb °C Bottles Received: 38 ~~38~~

Date: 12/5/15 Time: 0900

Condition: (lab use only)

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

Company Name/Address: **Portnoy Environmental, Inc**

Billing Information:

Report to: **Alan Hopkins**

Email To: **ahopkins@pei-tx.com**

Project Description: **Mt. Vernon Compressor Station**

City/State Collected:

Phone:

Fax:

Client Project # **Mt. Vernon**

Lab Project #

Collected by (print):

Site/Facility ID # **Mt. Vernon**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y ____

Rush? (Lab MUST Be Notified)

____ Same Day 200%
____ Next Day 100%
____ Two Day 50%
____ Three Day 25%

Date Results Needed

Email? ___No ___Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

ESC LABORATORY SCIENCES
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Phone: 800-767-5859
Fax: 615-758-5859

L# L805954N

Table # L808314

Acctnum:

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Chromium	Hold	Rem./Contaminant	Sample # (lab only)
MV-0G-70:0	Grab	SS		12/2/15		1	X			~~43~~
MV-0G-70:18	Grab	SS		12/2/15		1	X			~~44~~
MV-0G-70:30	Grab	SS		12/2/15		1		X		15
MV-0G-70:60	Grab	SS		12/2/15		1		X		
MV-0G-80:0	Grab	SS		12/2/15		1	X			~~45~~
MV-0G-80:18	Grab	SS		12/2/15		1	X			~~46~~
MV-0G-80:30	Grab	SS		12/2/15		1		X		16
MV-0G-80:60	Grab	SS		12/2/15		1		X		
MV-0G-90:0	Grab	SS		12/2/15		1	X			~~47~~
MV-0G-90:18	Grab	SS		15/2/15		1	X			~~48~~

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____

Flow _____ Other _____

Remarks:

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: 4 °C Bottles Received: 48

Date: 12/5/15 Time: 09 00

Condition: (lab use only)

COC Seal Intact: ____Y ____N ____NA

pH Checked: NCF:

Chain of Custody Page 10 of ___

ESC LABORATORY SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# ~~L805454~~ A1
A101
L808314

Company Name/Address: **Portnoy Environmental, Inc**

Billing Information:

Report to: **Alan Hopkins**

Email To: **ahopkins@pei-tx.com**

Project Description: **Mt. Vernon Compressor Station**

City/State Collected:

Phone:
Fax:

Client Project # **Mt. Vernon**

Lab Project #

Collected by (print):

Site/Facility ID # **Mt. Vernon**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y ____

Rush? (Lab MUST Be Notified)
____ Same Day 200%
____ Next Day 100%
____ Two Day 50%
____ Three Day 25%

Date Results Needed

Email? ___No ___Yes
FAX? ___No ___Yes

Acctnum:
Template:
Prelogin:
TSR:
PB:
Shipped Via:

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Chromium	Hold	Rem./Contaminant	Sample # (lab only)
MV-0G-90:30	Grab	SS		12/2/15		1		X		17
MV-0G-90:60	Grab	SS		12/2/15		1		X		
MV-0H83:0	Grab	SS		12/2/15		1	X			~~49~~ 50
MV-0H83:18	Grab	SS		12/2/15		1	X			18
MV-0H83:30	Grab	SS		12/2/15		1				51
MV-0J117:0	Grab	SS		12/2/15		1	X			~~52~~
MV-0J117:18	Grab	SS		12/2/15		1	X			19
MV-0J117:30	Grab	SS		12/2/15		1		X		
	Grab	SS		12/2/15		1				
	Grab	SS		15/2/15		1				

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____

Flow _____ Other _____

Remarks:

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: Amb °C Bottles Received: 384

Date: 12/5/15 Time: 0900

Condition: (lab use only)

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

Company Name/Address: **Portnoy Environmental, Inc**

Billing Information:

Report to: **Alan Hopkins**

Email To: **ahopkins@pei-tx.com**

Project Description: **Mt. Vernon Compressor Station**

City/State Collected:

Phone:
Fax:

Client Project # **Mt. Vernon**

Lab Project #

Collected by (print):

Site/Facility ID # **Mt. Vernon**

P.O. #

Collected by (signature):
Immediately
Packed on Ice N ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No ___Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 11 of ___

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Fax: 615-758-5859

L# ~~L805454~~ N

Table # L808314

Acctnum:
Template:
Prelogin:
TSR:
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Chromium	Hold	Rem./Contaminant	Sample # (lab only)
MV-0K-36:0	Grab	SS		12/2/15		1	X			~~57~~
MV-0K-36:18	Grab	SS		12/2/15		1	X			~~54~~
MV-0K-36:30	Grab	SS		12/2/15		1		X		20
MV-0K-40:0	Grab	SS		12/2/15		1	X			~~55~~
MV-0K-40:18	Grab	SS		12/2/15		1	X			~~56~~
MV-0K-40:30	Grab	SS		12/2/15		1		X		21
MV-0K-40:48	Grab	SS		12/2/15		1		X		
MV-0K-44:0	Grab	SS		12/2/15		1	X			~~57~~
MV-0K-44:18	Grab	SS		12/2/15		1	X			~~58~~
MV-0K-44:30	Grab	SS		15/2/15		1		X		22

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Hold #

Condition: (lab use only)

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: Amb °C Bottles Received: 384

Date: 12/5/15 Time: 0930

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

Chain of Custody Page 14 of ___

ESC LABS S-C-I-E-N-C-E-S
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 180544
Table # 180831

Acctnum:
Template:
Prelogin:
TSR:
PB:
Shipped Via:

Company Name/Address:
Portnoy Environmental, Inc

Billing Information:

Report to:
Alan Hopkins

Email To:
ahopkins@pei-tx.com

Project Description: **Mt. Vernon Compressor Station**

City/State Collected:

Phone:
Fax:

Client Project #
Mt. Vernon

Lab Project #

Collected by (print):

Site/Facility ID #
Mt. Vernon

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y ____

Rush? (Lab MUST Be Notified)
____ Same Day 200%
____ Next Day 100%
____ Two Day 50%
____ Three Day 25%

Date Results Needed

Email? ___No ___Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Chromium	Hold	Rem./Contaminant	Sample # (lab only)
MV-0K-64:30	Grab	SS		12/2/15		1		X		
MV-0K-64:60	Grab	SS		12/2/15		1		X		
MV-0L-120:0	Grab	SS		12/2/15		1	X			~~69~~
MV-0L-120:18	Grab	SS		12/2/15		1	X			~~70~~
MV-0L-120:30	Grab	SS		12/2/15		1		X		-23
MV-0N-08:0	Grab	SS		12/2/15		1	X			~~71~~
MV-0N-08:18	Grab	SS		12/2/15		1	X			~~72~~
MV-0N-08:24	Grab	SS		12/2/15		1		X		
MV-0N-86:0	Grab	SS		12/2/15		1	X			~~73~~
MV-0N-86:18	Grab	SS		12/2/15		1	X			~~74~~

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: Amb °C Bottles Received: 38

Date: 12/5/15 Time: 0900

Condition: (lab use only)

COC Seal Intact: ____Y ____N ____NA

pH Checked: NCF:

Company Name/Address: **Portnoy Environmental, Inc**

Billing Information:

Report to: **Alan Hopkins**

Email To: **ahopkins@pei-tx.com**

Project Description: **Mt. Vernon Compressor Station**

City/State Collected:

Phone:
Fax:

Client Project # **Mt. Vernon**

Lab Project #

Collected by (print):

Site/Facility ID # **Mt. Vernon**

P.O. #

Collected by (signature):
Immediately Packed on Ice N ____ Y ____

Rush? (Lab MUST Be Notified)
____ Same Day 200%
____ Next Day 100%
____ Two Day 50%
____ Three Day 25%

Date Results Needed

Email? ___No ___Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 15 of ___

ESC LABORATORY SCIENCES
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Phone: 800-767-5859
Fax: 615-758-5859

L# ~~L905954~~

Table # L808314

Acctnum:
Template:
Prelogin:
TSR:
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Chromium	Hold	Rem./Contaminant	Sample # (lab only)
MV-0N-86:30	Grab	SS		12/2/15		1		X		-2V
MV-0N-90:0	Grab	SS		12/2/15		1	X			~~75~~
MV-0N-90:18	Grab	SS		12/2/15		1	X			~~76~~
MV-0N-90:30	Grab	SS		12/2/15		1		X		25
MV-0P121:0	Grab	SS		12/2/15		1	X			~~77~~
MV-0P121:18	Grab	SS		12/2/15		1	X			~~78~~
MV-0Q00:0	Grab	SS		12/2/15		1	X			~~79~~
MV-0Q00:18	Grab	SS		12/2/15		1	X			~~80~~
MV-0Q00:30	Grab	SS		12/2/15		1		X		
MV-0Q00:60	Grab	SS		12/2/15		1		X		

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____

Flow _____ Other _____

Remarks:

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: Amb °C Bottles Received: 38

Date: 12/5/15 Time: 0900

Condition: (lab use only)
OK

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

Page 17 of ___

Chain of Custody

ESC LABORATORY SCIENCES

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Fax: 615-758-5859

L# L805454

Table # L8083N

Acctnum:
Template:
Prelogin:
TSR:
PB:
Shipped Via:

Company Name/Address: **Portnoy Environmental, Inc**

Billing Information:

Report to: **Alan Hopkins**

Email To: **ahopkins@pei-tx.com**

Project Description: **Mt. Vernon Compressor Station**

City/State Collected:

Phone:
Fax:

Client Project # **Mt. Vernon**

Lab Project #

Collected by (print):

Site/Facility ID # **Mt. Vernon**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y ____

Rush? (Lab MUST Be Notified)
____ Same Day 200%
____ Next Day 100%
____ Two Day 50%
____ Three Day 25%

Date Results Needed

Email? ___No ___Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Chromium	Hold	Reis./Contaminant	Sample # (lab only)
MV-0Q83:0	Grab	SS		12/2/15		1	X			~~81~~
MV-0Q83:18	Grab	SS		12/2/15		1	X			~~82~~
MV-0Q83:30	Grab	SS		12/2/15		1		X		-26
MV-0Q70:0	Grab	SS		12/2/15		1	X			~~83~~
MV-0Q70:18	Grab	SS		12/2/15		1	X			~~84~~
MV-0Q70:30	Grab	SS		12/2/15		1		X		
MV-0Q80:0	Grab	SS		12/2/15		1	X			~~85~~
MV-0Q80:18	Grab	SS		12/2/15		1	X			~~86~~
MV-0Q80:30	Grab	SS		12/2/15		1		X		
MV-0Q80:60	Grab	SS		12/2/15		1		X		

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____

Flow _____ Other _____

Remarks:

Hold #

Condition: (lab use only)

ok

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: Amb °C Bottles Received: 38V

Date: 12/5/15 Time: 0900

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

Company Name/Address: **Portnoy Environmental, Inc**

Billing Information:

Report to: **Alan Hopkins**

Email To: **ahopkins@pei-tx.com**

Project Description: **Mt. Vernon Compressor Station**

City/State Collected:

Phone:
Fax:

Client Project # **Mt. Vernon**

Lab Project #

Collected by (print):

Site/Facility ID # **Mt. Vernon**

P.O. #

Collected by (signature):
Immediately Packed on Ice N ____ Y ____

Rush? (Lab MUST Be Notified)
____ Same Day 200%
____ Next Day 100%
____ Two Day 50%
____ Three Day 25%

Date Results Needed

Email? ___No ___Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 18 of ___

ESC LABS SCIENCES
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Phone: 800-767-5859
Fax: 615-758-5859

L# L805954 N

Table # 180831

Acctnum:
Template:
Prelogin:
TSR:
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Chromium	Hold	Rem./Contaminant	Sample # (lab only)
MV-0Q90:0	Grab	SS		12/2/15		1	X			87
MV-0Q90:18	Grab	SS		12/2/15		1	X			88
MV-0Q90:30	Grab	SS		12/2/15		1		X		
MV-0Q90:60	Grab	SS		12/2/15		1		X		
MV-0S84:0	Grab	SS		12/2/15		1	X			89
MV-0S84:18	Grab	SS		12/2/15		1	X			90
MV-0S84:30	Grab	SS		12/2/15		1		X		-27
MV-0S87:0	Grab	SS		12/2/15		1	X			91
MV-0S87:18	Grab	SS		12/2/15		1	X			92
MV-0S87:30	Grab	SS		12/2/15		1		X		28

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: Amb °C Bottles Received: 38Y

Date: 12/5/15 Time: 0900

Condition: (lab use only) R

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

Company Name/Address: **Portnoy Environmental, Inc**

Billing Information:

Report to: **Alan Hopkins**

Email To: **ahopkins@pei-tx.com**

Project Description: **Mt. Vernon Compressor Station**

City/State Collected:

Phone:
Fax:

Client Project # **Mt. Vernon**

Lab Project #

Collected by (print):

Site/Facility ID # **Mt. Vernon**

P.O. #

Collected by (signature):
Immediately Packed on Ice N ____ Y ____

Rush? (Lab MUST Be Notified)
____ Same Day 200%
____ Next Day 100%
____ Two Day 50%
____ Three Day 25%

Date Results Needed

Email? ___No ___Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 20 of ___

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Fax: 615-758-5859

L# L805954
A102 L8083.4

Acctnum:
Template:
Prelogin:
TSR:
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Chromium	Hold	Rem./Contaminant	Sample # (lab only)
MV-AD77:60	Grab	SS		12/2/15		1	X			~~100~~
MV-QV94/AY92:0	Grab	SS		12/2/15		1	X			~~101~~
MV-QV94/AY92:18	Grab	SS		12/2/15		1	X			~~102~~
MV-AE-95:0	Grab	SS		12/2/15		1	X			~~103~~
MV-AE-95:18	Grab	SS		12/2/15		1	X			~~104~~
MV-AE-95:30	Grab	SS		12/2/15		1		X		-29
MV-AF25:0	Grab	SS		12/2/15		1	X			~~105~~
MV-AF25:18	Grab	SS		12/2/15		1	X			~~106~~
MV-AF25:30	Grab	SS		12/2/15		1		X		-30
MV-AF28:0	Grab	SS		12/2/15		1	X			~~107~~

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: Amb °C Bottles Received: 384

Date: 12/5/15 Time: 0900

Condition: (lab use only) OK

COC Seal Intact: ____Y ____N ____NA

pH Checked: NCF:

Company Name/Address: **Portnoy Environmental, Inc**

Billing Information:

Report to: **Alan Hopkins**

Email To: **ahopkins@pei-tx.com**

Project Description: **Mt. Vernon Compressor Station**

City/State Collected:

Phone:

Fax:

Client Project # **Mt. Vernon**

Lab Project #

Collected by (print):

Site/Facility ID # **Mt. Vernon**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y ____

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No ___Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 22 of ___

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L# L805959

Table # 1808314

Acctnum:

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Chromium	Hold	Rem./Contaminant	Sample # (lab only)
MV-AF28:18	Grab	SS		12/2/15		1	X			~~108~~
MV-AF28:30	Grab	SS		12/2/15		1		X		-31
MV-AI-85:0	Grab	SS		12/2/15		1	X			~~109~~
MV-AI-85:18	Grab	SS		12/2/15		1	X			~~110~~
MV-AI-85:30	Grab	SS		12/2/15		1		X		32
MV-AI-91:0	Grab	SS		12/2/15		1	X			~~111~~
MV-AI-91:18	Grab	SS		12/2/15		1	X			~~112~~
MV-AI-91:30	Grab	SS		12/2/15		1		X		33
MV-AM98:0	Grab	SS		12/2/15		1	X			~~113~~
MV-AM98:18	Grab	SS		12/2/15		1	X			~~114~~

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____

Flow _____ Other _____

Hold #

Remarks:

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: AM6 °C Bottles Received: 384

Date: 12/5/15 Time: 0900

Condition: (lab use only) OK

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

Company Name/Address: **Portnoy Environmental, Inc**

Billing Information:

Report to: **Alan Hopkins**

Email To: **ahopkins@pei-tx.com**

Project Description: **Mt. Vernon Compressor Station**

City/State Collected:

Phone:

Fax:

Client Project # **Mt. Vernon**

Lab Project #

Collected by (print):

Site/Facility ID # **Mt. Vernon**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y ____

Rush? (Lab MUST Be Notified)
____ Same Day 200%
____ Next Day 100%
____ Two Day 50%
____ Three Day 25%

Date Results Needed

Email? ___No __Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 23 of ___

ESC LABS SCIENCES
YOUR LAB OF CHOICE
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Phone: 800-767-5859
Fax: 615-758-5859

L # L805454
Table # 180831V
Acctnum:
Template:
Prelogin:
TSR:
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Chromium	Hold	Rem./Contaminant	Sample # (lab only)
MV-AN04:0	Grab	SS		12/2/15		1	X			~~16~~
MV-AN04:18	Grab	SS		12/2/15		1	X			~~16~~
MV-AN04:30	Grab	SS		12/2/15		1		X		3V
MV-AU28:0	Grab	SS		12/2/15		1	X			~~119~~
MV-AU28:18	Grab	SS		12/2/15		1	X			~~119~~
MV-AU31:0	Grab	SS		12/2/15		1	X			~~119~~
MV-AU31:18	Grab	SS		12/2/15		1	X			~~120~~
MV-AX26:0	Grab	SS		12/2/15		1	X			~~121~~
MV-AX26:18	Grab	SS		12/2/15		1	X			~~122~~
MV-AX31:0	Grab	SS		12/2/15		1	X			~~123~~

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: Amb °C Bottles Received: 38V

Date: 12/5/15 Time: 0920

Condition: (lab use only) OK

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

Company Name/Address: **Portnoy Environmental, Inc**

Billing Information:

Report to: **Alan Hopkins**

Email To: **ahopkins@pei-tx.com**

Project Description: **Mt. Vernon Compressor Station**

City/State Collected:

Phone:

Fax:

Client Project # **Mt. Vernon**

Lab Project #

Collected by (print):

Site/Facility ID # **Mt. Vernon**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y ____

Rush? (Lab MUST Be Notified)
____ Same Day 200%
____ Next Day 100%
____ Two Day 50%
____ Three Day 25%

Date Results Needed

Email? ___No ___Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 2 of ___

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L # ~~L905451~~

Table # L808314

Acctnum:

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Chromium	Hold	Rem./Contaminant	Sample # (lab only)
MV-AX31:18	Grab	SS		12/2/15		1	X			~~T24~~
MV-AZ26:0	Grab	SS		12/2/15		1	X			~~T25~~
MV-AZ26:18	Grab	SS		12/2/15		1	X			~~T26~~
MV-AZ29:0	Grab	SS		12/2/15		1	X			~~T27~~
MV-AZ29:18	Grab	SS		12/2/15		1	X			~~T28~~
MV-BA07:0	Grab	SS		12/2/15		1	X			~~T29~~
MV-BA07:18	Grab	SS		12/2/15		1	X			~~T30~~
MV-BA07:30	Grab	SS		12/2/15		1		X		35
MV-BA11:0	Grab	SS		12/2/15		1	X			~~T31~~
MV-BA11:18	Grab	SS		12/2/15		1	X			~~T32~~

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: Amb °C Bottles Received: 384

Date: 12/5/15 Time: 09 00

Condition: (lab use only)

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

Company Name/Address: **Portnoy Environmental, Inc**

Billing Information:

Report to: **Alan Hopkins**

Email To: **ahopkins@pei-tx.com**

Project Description: **Mt. Vernon Compressor Station**

City/State Collected:

Phone:

Fax:

Client Project # **Mt. Vernon**

Lab Project #

Collected by (print):

Site/Facility ID # **Mt. Vernon**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y ____

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No ___Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 25 of ___

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Fax: 615-758-5859

L # L805954

Table # L808316

Acctnum:

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No of Cntrs	Chromium	Hold	Rem./Contaminant	Sample # (lab only)
MV-BE11:30	Grab	SS		12/2/15		1		X		36
MV-BA11:60	Grab	SS		12/2/15		1		X		
MV-BP12:0	Grab	SS		12/2/15		1	X			~~133~~
MV-BP12:18	Grab	SS		12/2/15		1	X			~~134~~
MV-BP12:30	Grab	SS		12/2/15		1		X		37
MV-BT12:0	Grab	SS		12/2/15		1	X			~~135~~
MV-BT12:18	Grab	SS		12/2/15		1	X			~~136~~
MV-BT12:30	Grab	SS		12/2/15		1		X		38
MV-BU81:0	Grab	SS		12/2/15		1	X			~~137~~
MV-BU81:18	Grab	SS		12/2/15		1	X			~~138~~

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: Amb °C Bottles Received: 38Y

Date: 12/5/15 Time: 09:00

Condition: (lab use only)

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

Company Name/Address: **Portnoy Environmental, Inc**

Billing Information:

Report to: **Alan Hopkins**

Email To: **ahopkins@pei-tx.com**

Project Description: **Mt. Vernon Compressor Station**

City/State Collected:

Phone:
Fax:

Client Project # **Mt. Vernon**

Lab Project #

Collected by (print):

Site/Facility ID # **Mt. Vernon**

P.O. #

Collected by (signature):
Immediately Packed on Ice N____ Y____

Rush? (Lab MUST Be Notified)
____ Same Day 200%
____ Next Day 100%
____ Two Day 50%
____ Three Day 25%

Date Results Needed

Email? ___No ___Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

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Fax: 615-758-5859

L # L805954
Table # L808314
Acctnum:
Template:
Prelogin:
TSR:
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Chromium	Hold	Rem./Contaminant	Sample # (lab only)
MV-CC08:18	Grab	SS		12/2/15		1	X			~~134~~
MV-CC77:0	Grab	SS		12/2/15		1	X			~~140~~
MV-CC77:18	Grab	SS		12/2/15		1	X			~~141~~
MV-CC-96:0	Grab	SS		12/2/15		1	X			~~142~~
MV-CC-96:18	Grab	SS		12/2/15		1	X			~~143~~
MV-CC-96:30	Grab	SS		12/2/15		1		X		39
MV-CE-92:0	Grab	SS		12/2/15		1	X			~~144~~
MV-CE-92:12	Grab	SS		12/2/15		1	X			~~145~~
MV-CG75:0	Grab	SS		12/2/15		1	X			~~146~~
MV-CG75:18	Grab	SS		12/2/15		1	X			~~147~~

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: Amb °C Bottles Received: 384

Date: 12/5/15 Time: 0900

Condition: (lab use only) ok

COC Seal Intact: ____ Y ____ N ____ NA

pH Checked: NCF:

Company Name/Address: **Portnoy Environmental, Inc**

Billing Information:

Report to: **Alan Hopkins**

Email To: **ahopkins@pei-tx.com**

Project Description: **Mt. Vernon Compressor Station**

City/State Collected:

Phone:
Fax:

Client Project # **Mt. Vernon**

Lab Project #

Collected by (print):

Site/Facility ID # **Mt. Vernon**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y ____

Rush? (Lab MUST Be Notified)
____ Same Day 200%
____ Next Day 100%
____ Two Day 50%
____ Three Day 25%

Date Results Needed

Email? ___No ___Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Chromium	Hold	Rem./Contaminant	Sample # (lab only)
MV-CG-89:0	Grab	SS		12/2/15		1	X			~~148~~
MV-CK73:0	Grab	SS		12/2/15		1	X			~~149~~
MV-CK73:18	Grab	SS		12/2/15		1	X			~~150~~
MV-CL47:60	Grab	SS		12/2/15		1	X			~~151~~
MV-CL-84:0	Grab	SS		12/2/15		1	X			~~152~~
MV-CL-84:12	Grab	SS		12/2/15		1	X			~~153~~
MV-CM-95:0	Grab	SS		12/2/15		1	X			~~154~~
MV-CM-95:18	Grab	SS		12/2/15		1	X			~~155~~
MV-CM-95:30	Grab	SS		12/2/15		1		X		-40
MV-CM-95:60	Grab	SS		12/2/15		1		X		

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Chain of Custody Page 2 of ___

ESC LABORATORIES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# ~~L805951~~ NN
A103
L808314

Acctnum:
Template:
Prelogin:
TSR:
PB:
Shipped Via:

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: RnB °C Bottles Received: 35

Date: 12/5/15 Time: 09 00

Hold #

Condition: (lab use only)
ok

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

Company Name/Address: **Portnoy Environmental, Inc**

Billing Information:

Report to: **Alan Hopkins**

Email To: **ahopkins@pei-tx.com**

Project Description: **Mt. Vernon Compressor Station**

City/State Collected:

Phone:
Fax:

Client Project # **Mt. Vernon**

Lab Project #

Collected by (print):

Site/Facility ID # **Mt. Vernon**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y ____

Rush? (Lab MUST Be Notified)
____ Same Day 200%
____ Next Day 100%
____ Two Day 50%
____ Three Day 25%

Date Results Needed

Email? ___No ___Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 29 of ___

ESC LABS
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L # L805454

Table # L808316

Acctnum:
Template:
Prelogin:
TSR:
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Chromium	Hold	Rem./Contaminant	Sample # (lab only)
MV-CN-97:0	Grab	SS		12/2/15		1	X			~~156~~
MV-CN-97:18	Grab	SS		12/2/15		1	X			~~157~~
MV-CO71:0	Grab	SS		12/2/15		1	X			~~158~~
MV-CO71:18	Grab	SS		12/2/15		1	X			~~159~~
MV-CO-88:0	Grab	SS		12/2/15		1	X			~~160~~
MV-CO-88:18	Grab	SS		12/2/15		1	X			~~161~~
MV-CO-88:30	Grab	SS		12/2/15		1		X		-41
MV-CO-91:0	Grab	SS		12/2/15		1	X			~~162~~
MV-CO-91:18	Grab	SS		12/2/15		1	X			~~163~~
MV-CO-91:30	Grab	SS		12/2/15		1		X		42

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____

Flow _____ Other _____

Remarks:

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: Amb °C Bottles Received: 384

Date: 12/5/15 Time: 09:00

Condition: (lab use only)
ok

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

Company Name/Address:
Portnoy Environmental, Inc

Billing Information:

Report to: **Alan Hopkins**

Email To: **ahopkins@pei-tx.com**

Project Description: **Mt. Vernon Compressor Station**

City/State Collected:

Phone:
Fax:

Client Project # **Mt. Vernon**

Lab Project #

Collected by (print):

Site/Facility ID # **Mt. Vernon**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y ____

Rush? (Lab MUST Be Notified)
____ Same Day 200%
____ Next Day 100%
____ Two Day 50%
____ Three Day 25%

Date Results Needed

Email? ___No ___Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 30 of ___

ESC LABS

YOUR LAB OF CHOICE

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L805457

Table # L808316

Acctnum:
Template:
Prelogin:
TSR:
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Chromium	Hold	Rem./Contaminant	Sample # (lab only)
MV-CP-80:0	Grab	SS		12/2/15		1	X			~~164~~
MV-CP-80:12	Grab	SS		12/2/15		1	X			~~165~~
MV-CQ-86:0	Grab	SS		12/2/15		1	X			~~166~~
MV-CQ-86:18	Grab	SS		12/2/15		1	X			~~167~~
MV-CQ-86:30	Grab	SS		12/2/15		1		X		-43
MV-CQ-89:0	Grab	SS		12/2/15		1	X			~~168~~
MV-CQ-89:18	Grab	SS		12/2/15		1	X			~~169~~
MV-CQ-89:30	Grab	SS		12/2/15		1		X		44
MV-CQ-92:0	Grab	SS		12/2/15		1	X			~~170~~
MV-CQ-92:18	Grab	SS		12/2/15		1	X			~~171~~

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: Amb °C Bottles Received: 384

Date: 12/5/15 Time: 0906

Condition: (lab use only) K

COC Seal Intact: ____ Y ____ N ____ NA

pH Checked: NCF:

Chain of Custody Page 3 of ___

ESC LABS — YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# ~~L905454~~ N

Table # L808311

Acctnum:

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Company Name/Address: **Portnoy Environmental, Inc**

Billing Information:

Report to: **Alan Hopkins**

Email To: **ahopkins@pei-tx.com**

Project Description: **Mt. Vernon Compressor Station**

City/State Collected:

Phone:

Fax:

Client Project # **Mt. Vernon**

Lab Project #

Collected by (print):

Site/Facility ID # **Mt. Vernon**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y ____

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No ___Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Chromium	Hold	Rem./Contaminant	Sample # (lab only)
MV-CQ-92:30	Grab	SS		12/2/15		1		X		~~45~~
MV-CS69:0	Grab	SS		12/2/15		1	X			~~172~~
MV-CS69:18	Grab	SS		12/2/15		1	X			~~173~~
MV-CT-78:0	Grab	SS		12/2/15		1	X			~~174~~
MV-CT-78:12	Grab	SS		12/2/15		1	X			~~175~~
MV-CT-83:0	Grab	SS		12/2/15		1	X			~~176~~
MV-CT-83:18	Grab	SS		12/2/15		1	X			~~177~~
MV-CT-83:30	Grab	SS		12/2/15		1		X		46
MV-CT-87:0	Grab	SS		12/2/15		1	X			~~178~~
MV-CT-87:18	Grab	SS		12/2/15		1	X			~~179~~

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: Amb °C Bottles Received: 38

Date: 12/5/15 Time: 0900

Condition: (lab use only) OK

COC Seal Intact: ____Y ____N ____NA

pH Checked: NCF:

Company Name/Address: **Portnoy Environmental, Inc**

Billing Information:

Report to: **Alan Hopkins**

Email To: **ahopkins@pei-tx.com**

Project Description: **Mt. Vernon Compressor Station**

City/State Collected:

Phone:

Fax:

Client Project # **Mt. Vernon**

Lab Project #

Collected by (print):

Site/Facility ID # **Mt. Vernon**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y ____

Rush? (Lab MUST Be Notified)
____ Same Day 200%
____ Next Day 100%
____ Two Day 50%
____ Three Day 25%

Date Results Needed

Email? ___No ___Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Chromium	Hold	Rem./Contaminant	Sample # (lab only)
MV-CT-87:30	Grab	SS		12/2/15		1		X		47
MV-CW67:0	Grab	SS		12/2/15		1	X			~~48~~
MV-CW67:18	Grab	SS		12/2/15		1	X			~~49~~
MV-CX-76:0	Grab	SS		12/2/15		1	X			~~50~~
MV-CX-76:12	Grab	SS		12/2/15		1	X			~~51~~
MV-DA59:0	Grab	SS		12/2/15		1	X			~~52~~
MV-DA59:18	Grab	SS		12/2/15		1	X			~~53~~
MV-DA63:0	Grab	SS		12/2/15		1	X			~~54~~
MV-DA63:18	Grab	SS		12/2/15		1	X			~~55~~
MV-DB-77:0	Grab	SS		12/2/15		1	X			~~56~~

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Chain of Custody Page 1 of ___

ESC LAB SCIENCES

YOUR LAB OF CHOICE

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L # ~~L805954~~ L808316

Table # 128316

Acctnum:

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Hold #

Condition: (lab use only)

ok

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: Amb °C Bottles Received: 384

Date: 12/5/15 Time: 0400

Company Name/Address: **Portnoy Environmental, Inc**

Billing Information:

Report to: **Alan Hopkins**

Email To: **ahopkins@pei-tx.com**

Project Description: **Mt. Vernon Compressor Station**

City/State Collected:

Phone:

Fax:

Client Project # **Mt. Vernon**

Lab Project #

Collected by (print):

Site/Facility ID # **Mt. Vernon**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y ____

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No ___Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Chromium	Hold	Rem./Contaminant	Sample # (lab only)
MV-DH25:12	Grab	SS		12/2/15		1	X			~~199~~
MV-J113:0	Grab	SS		12/2/15		1	X			~~200~~
MV-J113:18	Grab	SS		12/2/15		1	X			~~201~~
MV-J-70:0	Grab	SS		12/2/15		1	X			~~202~~
MV-J-70:18	Grab	SS		12/2/15		1	X			~~203~~
MV-J-70:30	Grab	SS		12/2/15		1		X		-48
MV-J-70:60	Grab	SS		12/2/15		1		X		
MV-J-80:0	Grab	SS		12/2/15		1	X			~~204~~
MV-J-80:18	Grab	SS		12/2/15		1	X			~~205~~
MV-J-80:30	Grab	SS		12/2/15		1		X		49

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: Amb °C Bottles Received: 38Y

Date: 12/5/15 Time: 0900

Chain of Custody Page 5 of ___

ESC LAB SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L805454
A104
1803314

Acctnum:

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Hold #

Condition: OK (lab use only)

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

Company Name/Address: **Portnoy Environmental, Inc**

Billing Information:

Report to: **Alan Hopkins**

Email To: **ahopkins@pei-tx.com**

Project Description: **Mt. Vernon Compressor Station**

City/State Collected:

Phone:

Fax:

Client Project # **Mt. Vernon**

Lab Project #

Collected by (print):

Site/Facility ID # **Mt. Vernon**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y ____

Rush? (Lab MUST Be Notified)
____ Same Day 200%
____ Next Day 100%
____ Two Day 50%
____ Three Day 25%

Date Results Needed

Email? ___No ___Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Chromium	Hold	Rem./Contaminant	Sample # (lab only)
MV-J-98:0	Grab	SS		12/2/15		1	X			~~206~~
MV-J-98:18	Grab	SS		12/2/15		1	X			~~207~~
MV-J-98:30	Grab	SS		12/2/15		1		X		
MV-OP107:60	Grab	SS		12/2/15		1	X			~~208~~ -50
MV-OP107:90	Grab	SS		12/2/15		1		X		-51
MV-OP107:120	Grab	SS		12/2/15		1		X		~~209~~
MV-OQ90:0	Grab	SS		12/2/15		1	X			210
MV-OQ90:18	Grab	SS		12/2/15		1	X			52
MV-OQ90:30	Grab	SS		12/2/15		1		X		~~211~~
MV-S108:0	Grab	SS		12/2/15		1	X			

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____

Flow _____ Other _____

Remarks:

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: Amb °C Bottles Received: 38Y

Date: 12/5/15 Time: 09 00

Chain of Custody Page 1 of 1

ESC LABORATORY SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L805954

Table # 180831V

Acctnum:

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Hold #

Condition: (lab use only) OK

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

Andy Vann

From: Galer, Aaron <Aaron.Galer@Williams.com>
Sent: Thursday, December 17, 2015 4:40 PM
To: Tom Mellette; Andy Vann
Cc: Eric Koltes (erick@epi-wa.com)
Subject: RE: MT. VERNON CS L804192

To clarify - these samples need to be analyzed for Total Chromium.

Aaron Galer | Williams | Environmental Specialist IV | Operational Excellence
Office: 801-584-6746 | Cell: 801-244-1219 | 295 Chipeta Way #1, SLC, UT 84108

-----Original Message-----
From: Galer, Aaron
Sent: Thursday, December 17, 2015 3:12 PM
To: 'Tom Mellette' <TMellette@esclabsciences.com>; Andy Vann <AVann@esclabsciences.com>
Cc: Eric Koltes (erick@epi-wa.com) <erick@epi-wa.com>
Subject: MT. VERNON CS L804192

Tom,

Please have the following samples pulled from archive and run for 6010C analysis:

MV-00M-70:30
MV-00R120:30
MV-00W-70:30
MV-00W-80:30
MV-00W-90:30
MV-00X111:30
MV-00Z106:30
MV-0B96:30
MV-0B117:30
MV-0D92:30
MV-0G16:30
MV-0G20:30
MV-0G24:30
MV-0G60:30
MV-0G-70:30
MV-0G-80:30
MV-0G-90:30
MV-0H83:30
MV-0J117:30
MV-0K-36:30
MV-0K-40:30
MV-0K-44:30
MV-0L-120:30
MV-0N-86:30
MV-0N-90:30

MV-0Q83:30
MV-0S84:30
MV-0S87:30
MV-AE-95:30
MV-AF25:30
MV-AF28:30
MV-AI-85:30
MV-AI-91:30
MV-AN04:30
MV-BA07:30
MV-BE-11:30
MV-BA11:30
MV-BP12:30
MV-BT12:30
MV-CC96:30
MV-CM-95:30
MV-CO-88:30
MV-CO-91:30
MV-CQ-86:30
MV-CQ-89:30
MV-CQ-92:30
MV-CT-83:30
MV-CT-87:30
MV-J-70:30
MV-J-80:30
MV-OP107:90
MV-OP107:120
MV-OQ90:30

All samples need to be kept as we need to run a select number of them for Chromium VI analysis (in January). Thanks!

Aaron Galer | Williams | Environmental Specialist IV | Operational Excellence
Office: 801-584-6746 | Cell: 801-244-1219 | 295 Chipeta Way #1, SLC, UT 84108

-----Original Message-----
From: Tom Mellette [mailto:TMellette@esclabsciences.com]
Sent: Monday, December 07, 2015 8:47 AM
To: Eric Koltes <erick@epi-wa.com>; Andy Vann <AVann@esclabsciences.com>
Cc: ahopkins@pei-tx.com; Cynthia Moon <cynthiam@epi-wa.com>; Galer, Aaron <Aaron.Galer@Williams.com>
Subject: RE: ESC Lab Sciences Report for MT. VERNON Mt. Vernon CS L804192

Andy - the soils we are logging in today tag for 60 day hold along with this L# above.

Eric - 2/7/16 will be the disposal date.

-----Original Message-----
From: Eric Koltes [mailto:erick@epi-wa.com]
Sent: Monday, December 07, 2015 9:35 AM
To: Tom Mellette
Cc: ahopkins@pei-tx.com; Cynthia Moon; Aaron Galer
Subject: Re: ESC Lab Sciences Report for MT. VERNON Mt. Vernon CS L804192

Tom,

Please keep all samples from the Dec. mobilization at Mt. Vernon until at least January 15. Please notify us before disposing.

Thank you.

Eric.

Sent from my iPhone

> On Dec 7, 2015, at 7:18 AM, "tmellette@esclabsciences.com" <tmellette@esclabsciences.com> wrote:
>
> Thank you for choosing ESC Lab Sciences!
>
> Please find enclosed PDF files containing your laboratory analysis and chain of custody.
>
> ESC is pleased to announce that we are accepting samples from 21 states for the new 3511 prep technique for PAHs by 8270 and 8270SIM. This technique allows for a 98% reduction in solvent usage, and requires only 2 to 3 40 mL non-preserved amber vials vs. the traditional 1 or 2 amber liter jars. Please contact your Technical Service Representative for details.
>
> ESC is leading the laboratory industry with our On-line Data Management tools. Please contact your Technical Service Representative to learn how to create historical Excel tables or access data in real time using powerful and intuitive software that is only available at https://urldefense.proofpoint.com/v2/url?u=http-3A__www.esclabsciences.com&d=CwIFAg&c=-rOy2AjDSjLZM5Ky932q_A&r=yU85Md5bQIPFzIfyD9GYP-25QJQ7ui3kuRJ7JcXEmyQ&m=BU0hTB8evQwIiN-Xwlbw-Nfx2UI4oVDV_YoIX-hz-hE&s=RLiKFpkUvd0e31lSlIYinniPljHeQ0vO2l0v1DHGVXk&e= .
>
> How are we doing? ESC would like to hear from you. Please take a moment and complete our customer feedback survey at https://urldefense.proofpoint.com/v2/url?u=https-3A__www.surveymonkey.com_s_TCGLB7T&d=CwIFAg&c=-rOy2AjDSjLZM5Ky932q_A&r=yU85Md5bQIPFzIfyD9GYP-25QJQ7ui3kuRJ7JcXEmyQ&m=BU0hTB8evQwIiN-Xwlbw-Nfx2UI4oVDV_YoIX-hz-hE&s=ql0AuT-SMV4fbh66qoiSI6oLr4ZIwgPVUEAHKFvStUY&e= .
>
> ESC ... "Your Lab of Choice"
>
> ESC's 2015/2016 Holiday Schedule. Please contact your Technical Service Representative with any questions.
> ESC will be closed Thursday November 26th, Friday December 25th, and Friday January 1st, 2016.
> ESC will be closing at Noon (CST) on Thursday December 24th and at Noon (CST) on Thursday December 31st.
>
>
> Tom Mellette
> Technical Service Representative
> 615-773-9676
> tmellette@esclabsciences.com
>
> ESC Lab Sciences
> 12065 Lebanon Rd
> Mount Juliet, TN 37122
> www.esclabsciences.com
>

> Recipients configured to receive report file: ahopkins@pei-tx.com, erick@epi-wa.com, cynthiam@epi-wa.com
>
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>
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> Notice: This communication and any attached files may contain privileged or other confidential information. If you have received this in error, please contact the sender immediately via reply email and immediately delete the message and any attachments without copying or disclosing the contents. Thank you.
>
> <L804192.pdf>

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Andy Vann

From: Tom Mellette
Sent: Monday, December 21, 2015 6:06 PM
To: Alan Hopkins
Cc: Galer, Aaron; Andy Vann
Subject: MT. VERNON CS Off Hold to run L808314

Will do - Andy add this sample and scan this e-mail so we have a record.

Tom

-----Original Message-----
From: Alan Hopkins [mailto:AHopkins@pei-tx.com]
Sent: Monday, December 21, 2015 4:52 PM
To: Tom Mellette
Cc: Galer, Aaron; Andy Vann
Subject: Re: MT. VERNON CS Off Hold to run

Yes

Sent from my iPhone

> On Dec 21, 2015, at 4:04 PM, Tom Mellette <TMellette@esclabsciences.com> wrote:
>
> Aaron / Alan - see note below.
>
>
> From Andy Vann :
> Tom samples logged to Logged to 808314.
>
> There is no MV-BA11:30. There is a MV-BA11:60
>
> Just a typo ? run the MV-BA11:60 ?
>
>
> -----Original Message-----
> From: Galer, Aaron [mailto:Aaron.Galer@Williams.com]
> Sent: Thursday, December 17, 2015 4:40 PM
> To: Tom Mellette; Andy Vann
> Cc: Eric Koltes (erick@epi-wa.com)
> Subject: RE: MT. VERNON CS L804192
>
> To clarify - these samples need to be analyzed for Total Chromium.
>
> Aaron Galer | Williams | Environmental Specialist IV | Operational Excellence
> Office: 801-584-6746 | Cell: 801-244-1219 | 295 Chipeta Way #1, SLC, UT 84108
>
>
> -----Original Message-----

ANALYTICAL REPORT

June 13, 2016

Portnoy Environmental

Sample Delivery Group:	L816233
Samples Received:	12/05/2015
Project Number:	MT. VERNON
Description:	Mt. Vernon Compressor Station
Site:	MT. VERNON
Report To:	Alan Hopkins and NWPL Team 1414 W. Sam Houston Pkwy. N., Suite 170 Houston, TX 77043

Entire Report Reviewed By:

Darren Reeder
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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MV-0G-60:30 L816233-01 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG838057	1	12/23/15 14:07	12/23/15 14:17	MEL
Wet Chemistry by Method 2580 B-2011	WG850153	1	02/18/16 09:54	02/18/16 09:55	SJM
Wet Chemistry by Method 3060A/7196A	WG847371	1	02/08/16 10:26	02/09/16 19:33	MAJ
Wet Chemistry by Method 9045D	WG850203	1	02/18/16 13:55	02/18/16 13:55	AMC

MV-0G-70:30 L816233-02 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG838057	1	12/23/15 14:07	12/23/15 14:17	MEL
Wet Chemistry by Method 2580 B-2011	WG850153	1	02/18/16 09:54	02/18/16 09:55	SJM
Wet Chemistry by Method 3060A/7196A	WG847371	1	02/08/16 10:26	02/09/16 19:39	MAJ
Wet Chemistry by Method 9045D	WG850203	1	02/18/16 13:55	02/18/16 13:55	AMC

MV-0S84:30 L816233-03 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG838058	1	12/23/15 13:17	12/23/15 13:25	MEL
Wet Chemistry by Method 2580 B-2011	WG850153	1	02/18/16 09:54	02/18/16 09:55	SJM
Wet Chemistry by Method 3060A/7196A	WG847371	1	02/08/16 10:26	02/09/16 19:40	MAJ
Wet Chemistry by Method 9045D	WG850203	1	02/18/16 13:55	02/18/16 13:55	AMC

MV-0S87:30 L816233-04 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG838058	1	12/23/15 13:17	12/23/15 13:25	MEL
Wet Chemistry by Method 2580 B-2011	WG850153	1	02/18/16 09:54	02/18/16 09:55	SJM
Wet Chemistry by Method 3060A/7196A	WG847371	1	02/08/16 10:26	02/09/16 19:41	MAJ
Wet Chemistry by Method 9045D	WG850203	1	02/18/16 13:55	02/18/16 13:55	AMC

MV-AF25:30 L816233-05 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG838058	1	12/23/15 13:17	12/23/15 13:25	MEL
Wet Chemistry by Method 2580 B-2011	WG850153	1	02/18/16 09:54	02/18/16 09:55	SJM
Wet Chemistry by Method 3060A/7196A	WG847371	1	02/08/16 10:26	02/09/16 19:42	MAJ
Wet Chemistry by Method 9045D	WG850203	1	02/18/16 13:55	02/18/16 13:55	AMC

MV-CQ-89:30 L816233-06 Solid

Collected by | Collected date/time 12/02/15 00:00 | Received date/time 12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG838060	1	12/23/15 12:56	12/23/15 13:05	MEL
Wet Chemistry by Method 2580 B-2011	WG850153	1	02/18/16 09:54	02/18/16 09:55	SJM
Wet Chemistry by Method 3060A/7196A	WG847371	1	02/08/16 10:26	02/09/16 19:43	MAJ
Wet Chemistry by Method 9045D	WG850203	1	02/18/16 13:55	02/18/16 13:55	AMC

MV-J-80:30 L816233-07 Solid

Collected by	Collected date/time	Received date/time
	12/02/15 00:00	12/05/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG838060	1	12/23/15 12:56	12/23/15 13:05	MEL
Wet Chemistry by Method 2580 B-2011	WG850153	1	02/18/16 09:54	02/18/16 09:55	SJM
Wet Chemistry by Method 3060A/7196A	WG847371	1	02/08/16 10:26	02/09/16 19:45	MAJ
Wet Chemistry by Method 9045D	WG850203	1	02/18/16 13:55	02/18/16 13:55	AMC

All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Darren Reeder
Technical Service Representative

Sample Handling and Receiving

The following samples were prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.

ESC Sample ID	Project Sample ID	Method
L816233-01	MV-0G-60:30	2540 G-2011, 3060A/7196A
L816233-02	MV-0G-70:30	2540 G-2011, 3060A/7196A
L816233-03	MV-0S84:30	2540 G-2011, 3060A/7196A
L816233-04	MV-0S87:30	2540 G-2011, 3060A/7196A
L816233-05	MV-AF25:30	2540 G-2011, 3060A/7196A
L816233-06	MV-CQ-89:30	2540 G-2011, 3060A/7196A
L816233-07	MV-J-80:30	2540 G-2011, 3060A/7196A

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.3		1	12/23/2015 14:17	WG838057

Wet Chemistry by Method 2580 B-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	mV			date / time	
ORP	111		1	02/18/2016 09:55	WG850153

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium,Hexavalent	ND		2.46	1	02/09/2016 19:33	WG847371

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
pH	6.55		1	02/18/2016 13:55	WG850203

Sample Narrative:

9045D L816233-01 WG850203: 6.55 at 22.4c

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.1		1	12/23/2015 14:17	WG838057

Wet Chemistry by Method 2580 B-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	mV			date / time	
ORP	125		1	02/18/2016 09:55	WG850153

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium,Hexavalent	ND		2.22	1	02/09/2016 19:39	WG847371

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
pH	7.43		1	02/18/2016 13:55	WG850203

Sample Narrative:

9045D L816233-02 WG850203: 7.43 at 22.7c

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.7		1	12/23/2015 13:25	WG838058

Wet Chemistry by Method 2580 B-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	mV			date / time	
ORP	134		1	02/18/2016 09:55	WG850153

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium,Hexavalent	3.92		2.48	1	02/09/2016 19:40	WG847371

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
pH	6.81		1	02/18/2016 13:55	WG850203

Sample Narrative:

9045D L816233-03 WG850203: 6.81 at 22.7c

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.5		1	12/23/2015 13:25	WG838058

Wet Chemistry by Method 2580 B-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	mV			date / time	
ORP	133		1	02/18/2016 09:55	WG850153

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium,Hexavalent	2.80		2.19	1	02/09/2016 19:41	WG847371

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
pH	7.01		1	02/18/2016 13:55	WG850203

Sample Narrative:

9045D L816233-04 WG850203: 7.01 at 22.9c

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.3		1	12/23/2015 13:25	WG838058

Wet Chemistry by Method 2580 B-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	mV			date / time	
ORP	113		1	02/18/2016 09:55	WG850153

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium,Hexavalent	ND		2.62	1	02/09/2016 19:42	WG847371

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
pH	8.76		1	02/18/2016 13:55	WG850203

Sample Narrative:

9045D L816233-05 WG850203: 8.76 at 22.8c

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.6		1	12/23/2015 13:05	WG838060

Wet Chemistry by Method 2580 B-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	mV			date / time	
ORP	130		1	02/18/2016 09:55	WG850153

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium,Hexavalent	ND		2.28	1	02/09/2016 19:43	WG847371

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
pH	6.83		1	02/18/2016 13:55	WG850203

Sample Narrative:

9045D L816233-06 WG850203: 6.83 at 22.6c

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.0		1	12/23/2015 13:05	WG838060

Wet Chemistry by Method 2580 B-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	mV			date / time	
ORP	158		1	02/18/2016 09:55	WG850153

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium,Hexavalent	ND		2.17	1	02/09/2016 19:45	WG847371

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
pH	7.53		1	02/18/2016 13:55	WG850203

Sample Narrative:

9045D L816233-07 WG850203: 7.53 at 22.5c

Method Blank (MB)

(MB) R3102274-1 12/23/15 14:17

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

Original Sample (OS) • Duplicate (DUP)

(OS) • (DUP) R3102274-3 12/23/15 14:17

Analyte	Original Result	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids		75.1	1	0.0308		5

Laboratory Control Sample (LCS)

(LCS) R3102274-2 12/23/15 14:17

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3102273-1 12/23/15 13:25

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000800			

Original Sample (OS) • Duplicate (DUP)

(OS) • (DUP) R3102273-3 12/23/15 13:25

Analyte	Original Result	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids		75.0	1	8.40	J3	5

Laboratory Control Sample (LCS)

(LCS) R3102273-2 12/23/15 13:25

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3102271-1 12/23/15 13:05

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000400			

Original Sample (OS) • Duplicate (DUP)

(OS) • (DUP) R3102271-3 12/23/15 13:05

Analyte	Original Result	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids		82.2	1	1.80		5

Laboratory Control Sample (LCS)

(LCS) R3102271-2 12/23/15 13:05

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Original Sample (OS) • Duplicate (DUP)

(OS) • (DUP) WG850153-1 02/18/16 09:55

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
		mV		%		%
ORP		112	1	0.897		20

Original Sample (OS) • Duplicate (DUP)

(OS) • (DUP) WG850153-2 02/18/16 09:55

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
		mV		%		%
ORP		165	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) WG850153-3 02/18/16 09:55 • (LCSD) WG850153-4 02/18/16 09:55

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mV	mV	mV	%	%	%			%	%
ORP	100	99	102	99.0	102	90.0-110			2.99	20

Method Blank (MB)

(MB) R3112431-1 02/09/16 19:28

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chromium,Hexavalent	U		0.640	2.00

L816233-05 Original Sample (OS) • Duplicate (DUP)

(OS) L816233-05 02/09/16 19:42 • (DUP) R3112431-4 02/09/16 19:42

Analyte	Original Result (dry) mg/kg	DUP Result (dry)	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chromium,Hexavalent	ND		1	0.000		20

L816233-07 Original Sample (OS) • Duplicate (DUP)

(OS) L816233-07 02/09/16 19:45 • (DUP) R3112431-5 02/09/16 19:45

Analyte	Original Result (dry) mg/kg	DUP Result (dry)	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chromium,Hexavalent	ND		1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3112431-2 02/09/16 19:29 • (LCSD) R3112431-3 02/09/16 19:29

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chromium,Hexavalent	97.4	79.4	79.8	82.0	82.0	80.0-120			1.00	20

L816233-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L816233-07 02/09/16 19:45 • (MS) R3112431-6 02/09/16 19:46 • (MSD) R3112431-7 02/09/16 19:46

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry)	MSD Result (dry)	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium,Hexavalent	20.0	ND			101	101	1	75.0-125			0.000	20

L816233-01 Original Sample (OS) • Duplicate (DUP)

(OS) L816233-01 02/18/16 13:55 • (DUP) WG850203-1 02/18/16 13:55

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	6.55	6.56	1	0.153		1

Original Sample (OS) • Duplicate (DUP)

(OS) • (DUP) WG850203-2 02/18/16 13:55

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
		su		%		%
pH		6.78	1	0.000		1

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) WG850203-3 02/18/16 13:55 • (LCSD) WG850203-4 02/18/16 13:55

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	su	su	su	%	%	%			%	%
pH	6.72	6.73	6.72	100	100	98.5-102			0.149	1

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Rec.	Recovery.

Qualifier	Description
J3	The associated batch QC was outside the established quality control range for precision.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [14]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

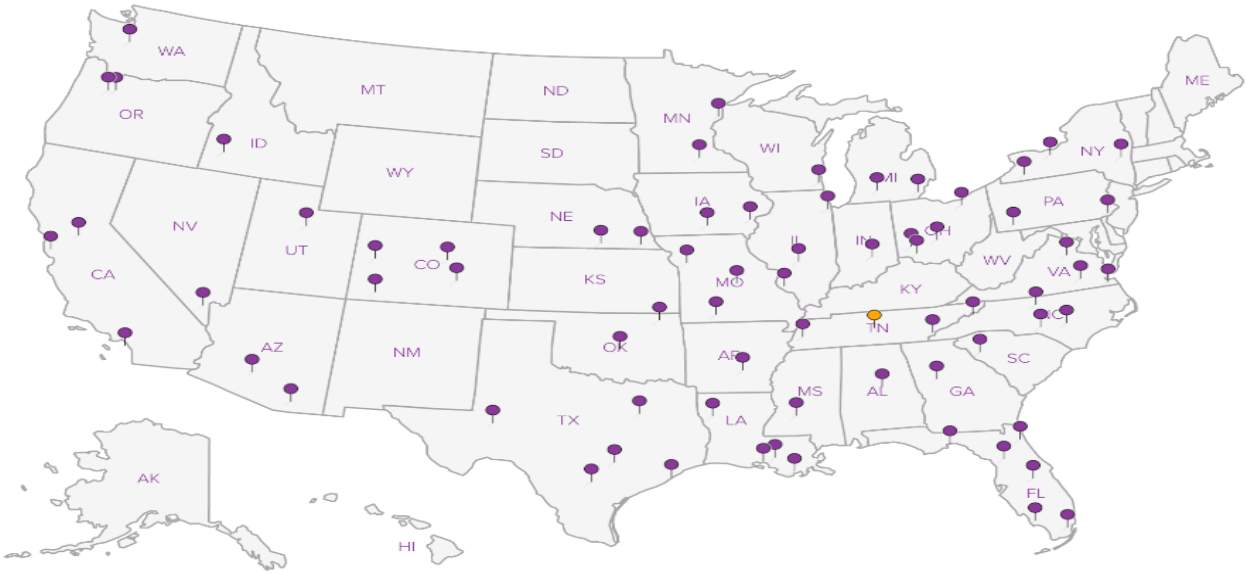
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Company Name/Address: **Portnoy Environmental, Inc**

Billing Information:

Report to: **Alan Hopkins**

Email To: **ahopkins@pei-tx.com**

Project Description: **Mt. Vernon Compressor Station**

City/State Collected:

Phone:
Fax:

Client Project # **Mt. Vernon**

Lab Project #

Collected by (print):

Site/Facility ID # **Mt. Vernon**

P.O. #

Collected by (signature):
Immediately Packed on Ice N ____ Y ____

Rush? (Lab MUST Be Notified)
____ Same Day 200%
____ Next Day 100%
____ Two Day 50%
____ Three Day 25%

Date Results Needed

Email? ___No ___Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 3 of ___

ESC LABS SCIENCES

YOUR LAB OF CHOICE

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# ~~L805954~~ N

Table # ~~L808314~~ N

Acctnum: L816233

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Chromium	Hold	Rem./Contaminant	Sample # (lab only)
MV-00W-70:48	Grab	SS		12/2/15		1		X		~~-13~~
MV-00W-80:0	Grab	SS		12/2/15		1	X			~~-14~~
MV-00W-80:18	Grab	SS		12/2/15		1	X		-01	~~-04~~
MV-00W-80:30	Grab	SS		12/2/15		1		X		
MV-00W-80:48	Grab	SS		12/2/15		1		X		
MV-00W-90:0	Grab	SS		12/2/15		1	X		-02	~~-15~~
MV-00W-90:18	Grab	SS		12/2/15		1	X			~~-16~~
MV-00W-90:30	Grab	SS		12/2/15		1		X		-05
MV-00W-90:48	Grab	SS		12/2/15		1		X		

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____

pH _____ Temp _____

Flow _____ Other _____

Remarks:

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: Amb °C 38Y 4Y Bottles Received:

Date: 12/5/15 Time: 09:00

Condition: (lab use only)

COC Seal Intact: ____Y ____N ____NA

pH Checked: NCF:

Chain of Custody Page 5 of ___

ESC LABS

Company Name/Address: Portnoy Environmental, Inc

Billing Information:

Report to: Alan Hopkins

Email To: ahopkins@pei-tx.com

Project Description: Mt. Vernon Compressor Station

City/State Collected:

Phone: Fax:

Client Project # Mt. Vernon

Lab Project #

Collected by (print):

Site/Facility ID # Mt. Vernon

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No ___Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

L# L805954

Table # 13083A

Acctnum:

Template: L816733

Prelogin:

TSR:

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Chromium	Hold	Rem./Contaminant	Sample # (lab only)
MV-0B117:0	Grab	SS		12/2/15		1	X			~~77~~
MV-0B117:18	Grab	SS		12/2/15		1	X			~~78~~
MV-0B117:30	Grab	SS		12/2/15		1		X		~~-04~~
MV-0D92:0	Grab	SS		12/2/15		1	X			~~75~~
MV-0D92:18	Grab	SS		12/2/15		1	X			~~76~~
MV-0D92:30	Grab	SS		12/2/15		1		X		~~-10~~
MV-0D92:60	Grab	SS		12/2/15		1		X		
MV-0D119:0	Grab	SS		12/2/15		1	X		-03	~~77~~
MV-0D119:18	Grab	SS		12/2/15		1	X		-04	~~79~~

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other ___

Remarks:

pH ___ Temp ___

Flow ___ Other ___

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ ___

Temp: AmB °C 3.84 Bottles Received: 8 N

Date: 12/5/15 Time: 0910

Condition: (lab use only)

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

Company Name/Address: **Portnoy Environmental, Inc**

Billing Information:

Report to: **Alan Hopkins**

Email To: **ahopkins@pei-tx.com**

Project Description: **Mt. Vernon Compressor Station**

City/State Collected:

Phone:
Fax:

Client Project # **Mt. Vernon**

Lab Project #

Collected by (print):

Site/Facility ID # **Mt. Vernon**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y ____

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No ___Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 6 of ___

ESC LABS SCIENCES
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Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# ~~L805954~~ N
Table # ~~L805314~~ N
Acctnum:
Template: L816233
Prelogin:
TSR:
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Chromium	Hold	Rem./Contaminant	Sample # (lab only)
MV-0F88:0	Grab	SS		12/2/15		1	X			~~27~~
MV-0F88:18	Grab	SS		12/2/15		1	X		-05	~~30~~
MV-0F88:30	Grab	SS		12/2/15		1		X		
MV-0F88:60	Grab	SS		12/2/15		1		X		
MV-0F121:0	Grab	SS		12/2/15		1	X			~~31~~
MV-0F121:18	Grab	SS		12/2/15		1	X			~~32~~
MV-0G16:0	Grab	SS		12/2/15		1	X			~~33~~
MV-0G16:18	Grab	SS		12/2/15		1	X			~~34~~
MV-0G16:30	Grab	SS		12/2/15		1		X		~~11~~
MV-0G16:60	Grab	SS		12/2/15		1		X		

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____

Flow _____ Other _____

Remarks:

Hold #

Condition: (lab use only)
OK

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: Amb °C 3.84 +.5N Bottles Received:

Date: 12/5/15 Time: 0900

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

Company Name/Address: **Portnoy Environmental, Inc**

Billing Information:

Report to: **Alan Hopkins**

Email To: **ahopkins@pei-tx.com**

Project Description: **Mt. Vernon Compressor Station**

City/State Collected:

Phone:
Fax:

Client Project # **Mt. Vernon**

Lab Project #

Collected by (print):

Site/Facility ID # **Mt. Vernon**

P.O. #

Collected by (signature):

Immediately Packed on Ice: N ____ Y ____

Rush? (Lab MUST Be Notified)
____ Same Day 200%
____ Next Day 100%
____ Two Day 50%
____ Three Day 25%

Date Results Needed

Email? ___No ___Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

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12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L805454

Table # T808314

Acctnum:
Template: L816233
Prelogin:
TSR:
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Chromium	Hold	Rem./Containment	Sample # (lab only)
MV-0G-70:0	Grab	SS		12/2/15		1	X			43
MV-0G-70:18	Grab	SS		12/2/15		1	X		-05	44
MV-0G-70:30	Grab	SS		12/2/15		1		X		45
MV-0G-70:60	Grab	SS		12/2/15		1		X		
MV-0G-80:0	Grab	SS		12/2/15		1	X			46
MV-0G-80:18	Grab	SS		12/2/15		1	X			47
MV-0G-80:30	Grab	SS		12/2/15		1		X		
MV-0G-80:60	Grab	SS		12/2/15		1		X		
MV-0G-90:0	Grab	SS		12/2/15		1	X			47
MV-0G-90:18	Grab	SS		15/2/15		1	X			48

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Flow _____ Other _____

Remarks:

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: Amb °C 38 Bottles Received: 48

Date: 12/5/15 Time: 09 00

Condition: (lab use only) OK

COC Seal Intact: ____ Y ____ N ____ NA

pH Checked: NCF:

Chain of Custody Page 10 of ___

ESC LABORATORY SCIENCES

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Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L805454 A1

A101

L805314 N

Company Name/Address: Portnoy Environmental, Inc

Billing Information:

Report to: Alan Hopkins

Email To: ahopkins@pei-tx.com

Project Description: Mt. Vernon Compressor Station

City/State Collected:

Phone: Fax:

Client Project # Mt. Vernon

Lab Project #

Collected by (print):

Site/Facility ID # Mt. Vernon

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No ___Yes

FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Chromium	Hold	Rem./Containment	Sample # (lab only)
MV-0G-90:30	Grab	SS		12/2/15		1		X		17
MV-0G-90:60	Grab	SS		12/2/15		1		X		49
MV-0H83:0	Grab	SS		12/2/15		1	X		-07	50
MV-0H83:18	Grab	SS		12/2/15		1	X			18
MV-0H83:30	Grab	SS		12/2/15		1				54
MV-0J117:0	Grab	SS		12/2/15		1	X			55
MV-0J117:18	Grab	SS		12/2/15		1	X			19
MV-0J117:30	Grab	SS		12/2/15		1		X		
	Grab	SS		12/2/15		1				
	Grab	SS		15/2/15		1				

Acctnum:

Template: L816233

Prelogin:

TSR:

PB:

Shipped Via:

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Flow _____ Other _____

Remarks:

Hold #

Condition: (lab use only)

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: Amb °C Bottles Received: 38

Date: 12/5/15 Time: 0900

COC Seal Intact: ___ Y ___ N ___ NA

pH Checked: NCF:

L816233

Troy Dunlap

From: Tom Mellette
Sent: Wednesday, February 10, 2016 5:17 PM
To: Troy Dunlap
Subject: FW: Chromium VI Analysis - Sample location Problem

Scan this e-mail behind L816233 CofC.

From: Tom Mellette
Sent: Monday, February 08, 2016 10:25 AM
To: 'Galer, Aaron'
Cc: AVann@esclabsciences.com
Subject: RE: Chromium VI Analysis - Sample location Problem

Unfortunately that is correct – we have them logged (ESC Sample Login L816233-01 thru -07).

Once again, I am embarrassed by this mistake and I apologize for this headache this has caused everyone.

Tom

From: Galer, Aaron [mailto:Aaron.Galer@Williams.com]
Sent: Monday, February 08, 2016 10:16 AM
To: Tom Mellette
Subject: RE: Chromium VI Analysis - Sample location Problem

Please confirm you have only 7 of the 30 samples requested for Cr6 analysis.

Aaron Galer | Williams | Environmental Specialist IV | Operational Excellence
Office: 801-584-6746 | Cell: 801-244-1219 | 295 Chipeta Way #1, SLC, UT 84108

From: Tom Mellette [mailto:TMellette@esclabsciences.com]
Sent: Saturday, February 06, 2016 9:23 AM
To: 'Eric Koltes' <erick@epi-wa.com>
Cc: Galer, Aaron <Aaron.Galer@Williams.com>; 'Alan Hopkins P.G.' <ahopkins@pei-tx.com>; Andy Vann <AVann@esclabsciences.com>
Subject: Chromium VI Analysis - Sample location Problem

This is not an e-mail I wanted to send. I just heard from my login supervisor and we can't locate the L805954 you have requested below to run - we do have the L808314. We hold samples all the time and just don't make this type of error. We have turned the hold sample area upside down and believe what occurred was a mis-communication with the lab group on what needed to happen or a human error mistake by disposal.

The list of hold samples we can locate are below along with the L803314's. I'm very sorry for this error. I will of course get the ones we have running for Cr6. If any of the below hold samples will help you let me know and I will add these. Once you have had time to digest please give me a call on my cell anytime (615-406-3470). I understand this could mean resampling of locations and we will of course make anything you need happen – this is our error 100%.

Hold tub 12-016 : MV-00W-80:48 , MV-00R-120:60 , MV-OJ69:30 , MV-00W-70:48 , MV00M-80-30 , MVOG-60:60 , MV-OG16:60 , MV-00W-90:48 , MVOB96:48 , MV00V116:30 , MV-OF88:30 , MV-OG35:30

L816233

, MV-0G24:60 , MV-0G-70:60 , MV-OG35:60MV-0092:60 , MV-OG-90:60 , MV-OG20:60 , MV-OF88:30 , MV-0K40:48 , MV-0K48:30 , MV-0K44:60 , MV-OG-80:60

Hold Tub 12-018 : MV-J-98:30 , MV-J-70:60 , MV-T-80:30 , MV-OJ69:60 , MV-A-80:30 , MV-CB12:12 , MV-T-90:30 , MV-T-80:48 , MV-T-90:60 , BA11-30 , MV-A-90:48 , 295-30 , MV-0Q-90:60 , MV-BE03:30 , MV-A-8Q:48 , MV-J-90:48 , MV-CC04:24 , MV-00M-80:48 , MV-BC03:30 , MV-J-90:30 , MV-A-90:30 , 8-30 , 3-30 , 2-30 , 4-30 , 5-24 , 30 , 6-30

Hold tub 12-017: MV-A-70:60 , MV-A-00:30 , MV-CM95:60 , MV-A-70:30 , MV-0Q90:60 , MV-OW-08:24 , MV-0Q70:30 , MV0K60:60 , MV-0K48:48 , MV-0K60:30 , MV-0K52:30 , MV0K64:30 , MV0Q-80:30 , MV0Q-00:30 , MV-0Q-80:60 , MV-0Q-00:60 , MV-0K64:60 , MV-0K56:60 , MV-0K56:30 , MV-0Q90-30 , MV-0K52:60

Andy – please have what we can locate logged for CR6 @ $0. I will let you know if any of the other samples have any value to run.

On Feb 5, 2016, at 5:16 PM, Eric Koltes <erick@epi-wa.com> wrote:

> Tom,
>
> Please add Chromium VI analysis to the following soil samples from Mt. Vernon…

L805954-171	MV-CQ-92:18
L805954-89	MV-0S84:0
L805954-161	MV-CO-88:18
L805954-165	MV-CP-80:12
L805954-109	MV-AI-85:0
L805954-163	MV-CO-91:18
L805954-81	MV-0Q83:0
L805954-169	MV-CQ-89:18
L805954-205	MV-J-80:18
L805954-106	MV-AF25:18
L808314-30	MV-AF25:30
L808314-28	MV-0S87:30
L805954-148	MV-CG-89:0
L805954-145	MV-CE-92:12
L808314-27	MV-0S84:30
L805954-92	MV-0S87:18
L805954-118	MV-AU28:18
L805954-50	MV-0H83:18
L808314-15	MV-0G-70:30
L805954-257	MV-7:18
L808314-44	MV-CQ-89:30
L808314-14	MV-0G60:30

L8/6233

L805954-164	MV-CP-80:0
L808314-49	MV-J-80:30
L805954-175	MV-CT-78:12
L805954-180	MV-CW67:0
L805954-119	MV-AU31:0
L805954-126	MV-AZ26:18
L805954-44	MV-0G-70:18
L805954-173	MV-CS69:18

Let us know if you have any questions.

Thanks,

Eric

Eric Koltes LG - Senior Geologist
ENVIRONMENTAL PARTNERS, INC.
1180 NW Maple Street, Suite 310 Issaquah, Washington 98027
425.395.0014 (direct) | 425.922.5666 (cell) | erick@epi-wa.com

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ANALYTICAL REPORT

October 28, 2016

Portnoy Environmental

Sample Delivery Group:	L867860
Samples Received:	10/22/2016
Project Number:	MT. VERNON
Description:	Mt. Vernon CS
Site:	MT. VERNON
Report To:	NWPL Team 1414 W. Sam Houston Pkwy. N., Suite 170 Houston, TX 77043

Entire Report Reviewed By:

Tom Mellette
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

[1]Cp: Cover Page 1

[2]Tc: Table of Contents 2

[3]Ss: Sample Summary 6

[4]Cn: Case Narrative 25

[5]Sr: Sample Results 26

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AD105:18 L867860-02 27

AD105:30 L867860-03 28

AK-78:0 L867860-04 29

AK-78:18 L867860-05 30

AK-78:30 L867860-06 31

AP99:0 L867860-07 32

AP99:18 L867860-08 33

AP99:30 L867860-09 34

AQ-79:0 L867860-10 35

AQ-79:18 L867860-11 36

AQ-79:30 L867860-12 37

AQ-86:0 L867860-13 38

AQ-86:18 L867860-14 39

AQ-86:30 L867860-15 40

AZ-76:0 L867860-16 41

AZ-76:18 L867860-17 42

AZ-76:30 L867860-18 43

BC-84:0 L867860-19 44

BC-84:18 L867860-20 45

BC-84:30 L867860-21 46

BC93:0 L867860-22 47

BC93:18 L867860-23 48

BC93:30 L867860-24 49

BI-90:0 L867860-25 50

BI-90:18 L867860-26 51

BI-90:30 L867860-27 52

BR85:0 L867860-28 53

BR85:18 L867860-29 54

BR85:30 L867860-30 55

BX-85:0 L867860-31 56

BX-85:18 L867860-32 57

BX-85:30 L867860-33 58

CD-87:0 L867860-34 59

CD-87:18 L867860-35 60
CJ-82:0 L867860-36 61
CJ-82:18 L867860-37 62
CO-78:0 L867860-38 63
CO-78:18 L867860-39 64
CO-78:30 L867860-40 65
CU72:0 L867860-41 66
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00N118:18 L867860-71 96
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00P125:30 L867860-75 100
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00P-99:18 L867860-77 102
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00Z125:18 L867860-90 115
0A133:0 L867860-91 116
0A23:0 L867860-92 117
0A23:18 L867860-93 118
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0C34:0 L867860-95 120
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0J-52:0 L867860-121 146
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AD105:0 L867860-01 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920162	1	10/24/16 15:38	10/26/16 12:32	CCE
Total Solids by Method 2540 G-2011	WG920272	1	10/25/16 10:27	10/25/16 10:50	KDW

AD105:18 L867860-02 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920162	1	10/24/16 15:38	10/26/16 12:34	CCE
Total Solids by Method 2540 G-2011	WG920272	1	10/25/16 10:27	10/25/16 10:50	KDW

AD105:30 L867860-03 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920162	1	10/24/16 15:38	10/26/16 12:43	CCE
Total Solids by Method 2540 G-2011	WG920272	1	10/25/16 10:27	10/25/16 10:50	KDW

AK-78:0 L867860-04 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920162	1	10/24/16 15:38	10/26/16 12:45	CCE
Total Solids by Method 2540 G-2011	WG920272	1	10/25/16 10:27	10/25/16 10:50	KDW

AK-78:18 L867860-05 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920162	1	10/24/16 15:38	10/26/16 12:48	CCE
Total Solids by Method 2540 G-2011	WG920272	1	10/25/16 10:27	10/25/16 10:50	KDW

AK-78:30 L867860-06 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920162	1	10/24/16 15:38	10/26/16 12:51	CCE
Total Solids by Method 2540 G-2011	WG920272	1	10/25/16 10:27	10/25/16 10:50	KDW

AP99:0 L867860-07 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920162	1	10/24/16 15:38	10/26/16 12:53	CCE
Total Solids by Method 2540 G-2011	WG920272	1	10/25/16 10:27	10/25/16 10:50	KDW

AP99:18 L867860-08 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920162	1	10/24/16 15:38	10/26/16 13:03	CCE
Total Solids by Method 2540 G-2011	WG920272	1	10/25/16 10:27	10/25/16 10:50	KDW

AP99:30 L867860-09 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920162	1	10/24/16 15:38	10/26/16 13:06	CCE
Total Solids by Method 2540 G-2011	WG920272	1	10/25/16 10:27	10/25/16 10:50	KDW

AQ-79:0 L867860-10 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920162	1	10/24/16 15:38	10/26/16 13:09	CCE
Total Solids by Method 2540 G-2011	WG920272	1	10/25/16 10:27	10/25/16 10:50	KDW

AQ-79:18 L867860-11 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920162	1	10/24/16 15:38	10/26/16 13:11	CCE
Total Solids by Method 2540 G-2011	WG920273	1	10/25/16 10:15	10/25/16 10:25	KDW

AQ-79:30 L867860-12 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920162	1	10/24/16 15:38	10/26/16 13:14	CCE
Total Solids by Method 2540 G-2011	WG920273	1	10/25/16 10:15	10/25/16 10:25	KDW

AQ-86:0 L867860-13 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920162	1	10/24/16 15:38	10/26/16 13:41	CCE
Total Solids by Method 2540 G-2011	WG920273	1	10/25/16 10:15	10/25/16 10:25	KDW

AQ-86:18 L867860-14 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920162	1	10/24/16 15:38	10/26/16 13:44	CCE
Total Solids by Method 2540 G-2011	WG920273	1	10/25/16 10:15	10/25/16 10:25	KDW

AQ-86:30 L867860-15 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920162	1	10/24/16 15:38	10/26/16 13:47	CCE
Total Solids by Method 2540 G-2011	WG920273	1	10/25/16 10:15	10/25/16 10:25	KDW

AZ-76:0 L867860-16 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920162	1	10/24/16 15:38	10/26/16 13:50	CCE
Total Solids by Method 2540 G-2011	WG920273	1	10/25/16 10:15	10/25/16 10:25	KDW

AZ-76:18 L867860-17 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920162	1	10/24/16 15:38	10/26/16 13:52	CCE
Total Solids by Method 2540 G-2011	WG920273	1	10/25/16 10:15	10/25/16 10:25	KDW

AZ-76:30 L867860-18 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920162	1	10/24/16 15:38	10/26/16 13:55	CCE
Total Solids by Method 2540 G-2011	WG920273	1	10/25/16 10:15	10/25/16 10:25	KDW

BC-84:0 L867860-19 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920162	1	10/24/16 15:38	10/26/16 13:58	CCE
Total Solids by Method 2540 G-2011	WG920273	1	10/25/16 10:15	10/25/16 10:25	KDW

BC-84:18 L867860-20 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920162	1	10/24/16 15:38	10/26/16 12:19	CCE
Total Solids by Method 2540 G-2011	WG920273	1	10/25/16 10:15	10/25/16 10:25	KDW

BC-84:30 L867860-21 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920163	1	10/25/16 09:57	10/26/16 16:17	ST
Total Solids by Method 2540 G-2011	WG920421	1	10/25/16 09:56	10/25/16 10:06	MEL

BC93:0 L867860-22 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920163	1	10/25/16 09:57	10/26/16 16:32	ST
Total Solids by Method 2540 G-2011	WG920421	1	10/25/16 09:56	10/25/16 10:06	MEL

BC93:18 L867860-23 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920163	1	10/25/16 09:57	10/26/16 16:35	ST
Total Solids by Method 2540 G-2011	WG920421	1	10/25/16 09:56	10/25/16 10:06	MEL

BC93:30 L867860-24 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920163	1	10/25/16 09:57	10/26/16 16:43	ST
Total Solids by Method 2540 G-2011	WG920421	1	10/25/16 09:56	10/25/16 10:06	MEL

BI-90:0 L867860-25 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920163	1	10/25/16 09:57	10/26/16 16:46	ST
Total Solids by Method 2540 G-2011	WG920421	1	10/25/16 09:56	10/25/16 10:06	MEL

BI-90:18 L867860-26 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920163	1	10/25/16 09:57	10/26/16 16:49	ST
Total Solids by Method 2540 G-2011	WG920421	1	10/25/16 09:56	10/25/16 10:06	MEL

BI-90:30 L867860-27 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920163	1	10/25/16 09:57	10/26/16 16:52	ST
Total Solids by Method 2540 G-2011	WG920421	1	10/25/16 09:56	10/25/16 10:06	MEL

BR85:0 L867860-28 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920163	1	10/25/16 09:57	10/26/16 16:55	ST
Total Solids by Method 2540 G-2011	WG920422	1	10/25/16 09:14	10/25/16 09:24	MEL

BR85:18 L867860-29 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920163	1	10/25/16 09:57	10/26/16 16:58	ST
Total Solids by Method 2540 G-2011	WG920422	1	10/25/16 09:14	10/25/16 09:24	MEL

BR85:30 L867860-30 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920163	1	10/25/16 09:57	10/26/16 17:01	ST
Total Solids by Method 2540 G-2011	WG920422	1	10/25/16 09:14	10/25/16 09:24	MEL

BX-85:0 L867860-31 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920163	1	10/25/16 09:57	10/26/16 17:04	ST
Total Solids by Method 2540 G-2011	WG920422	1	10/25/16 09:14	10/25/16 09:24	MEL

BX-85:18 L867860-32 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920163	1	10/25/16 09:57	10/26/16 17:07	ST
Total Solids by Method 2540 G-2011	WG920422	1	10/25/16 09:14	10/25/16 09:24	MEL

BX-85:30 L867860-33 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920163	1	10/25/16 09:57	10/26/16 17:10	ST
Total Solids by Method 2540 G-2011	WG920422	1	10/25/16 09:14	10/25/16 09:24	MEL

CD-87:0 L867860-34 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920163	1	10/25/16 09:57	10/26/16 17:19	ST
Total Solids by Method 2540 G-2011	WG920422	1	10/25/16 09:14	10/25/16 09:24	MEL

CD-87:18 L867860-35 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920163	1	10/25/16 09:57	10/26/16 17:22	ST
Total Solids by Method 2540 G-2011	WG920422	1	10/25/16 09:14	10/25/16 09:24	MEL

CJ-82:0 L867860-36 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920163	1	10/25/16 09:57	10/26/16 17:25	ST
Total Solids by Method 2540 G-2011	WG920422	1	10/25/16 09:14	10/25/16 09:24	MEL

CJ-82:18 L867860-37 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920163	1	10/25/16 09:57	10/26/16 17:28	ST
Total Solids by Method 2540 G-2011	WG920422	1	10/25/16 09:14	10/25/16 09:24	MEL

CO-78:0 L867860-38 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920163	1	10/25/16 09:57	10/26/16 17:31	ST
Total Solids by Method 2540 G-2011	WG920423	1	10/25/16 08:42	10/25/16 08:57	MEL

CO-78:18 L867860-39 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920163	1	10/25/16 09:57	10/26/16 17:34	ST
Total Solids by Method 2540 G-2011	WG920423	1	10/25/16 08:42	10/25/16 08:57	MEL

CO-78:30 L867860-40 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920163	1	10/25/16 09:57	10/26/16 17:37	ST
Total Solids by Method 2540 G-2011	WG920423	1	10/25/16 08:42	10/25/16 08:57	MEL

CU72:0 L867860-41 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920164	1	10/24/16 13:54	10/25/16 08:13	LTB
Total Solids by Method 2540 G-2011	WG920423	1	10/25/16 08:42	10/25/16 08:57	MEL

CU72:18 L867860-42 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920164	1	10/24/16 13:54	10/25/16 08:26	LTB
Total Solids by Method 2540 G-2011	WG920423	1	10/25/16 08:42	10/25/16 08:57	MEL

CU72:30 L867860-43 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920164	1	10/24/16 13:54	10/25/16 08:28	LTB
Total Solids by Method 2540 G-2011	WG920423	1	10/25/16 08:42	10/25/16 08:57	MEL

CU-75:0 L867860-44 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920164	1	10/24/16 13:54	10/25/16 08:36	LTB
Total Solids by Method 2540 G-2011	WG920423	1	10/25/16 08:42	10/25/16 08:57	MEL

CU-75:18 L867860-45 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920164	1	10/24/16 13:54	10/25/16 08:39	LTB
Total Solids by Method 2540 G-2011	WG920423	1	10/25/16 08:42	10/25/16 08:57	MEL

CU-75:30 L867860-46 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920164	1	10/24/16 13:54	10/25/16 08:42	LTB
Total Solids by Method 2540 G-2011	WG920423	1	10/25/16 08:42	10/25/16 08:57	MEL

DE61:0 L867860-47 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920164	1	10/24/16 13:54	10/25/16 08:45	LTB
Total Solids by Method 2540 G-2011	WG920423	1	10/25/16 08:42	10/25/16 08:57	MEL

DE61:18 L867860-48 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920164	1	10/24/16 13:54	10/25/16 08:47	LTB
Total Solids by Method 2540 G-2011	WG920424	1	10/25/16 08:23	10/25/16 08:32	KDW

DE61:30 L867860-49 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920164	1	10/24/16 13:54	10/25/16 08:50	LTB
Total Solids by Method 2540 G-2011	WG920424	1	10/25/16 08:23	10/25/16 08:32	KDW

E-63:0 L867860-50 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920164	1	10/24/16 13:54	10/25/16 08:53	LTB
Total Solids by Method 2540 G-2011	WG920424	1	10/25/16 08:23	10/25/16 08:32	KDW

E-63:18 L867860-51 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920164	1	10/24/16 13:54	10/25/16 08:56	LTB
Total Solids by Method 2540 G-2011	WG920424	1	10/25/16 08:23	10/25/16 08:32	KDW

E-63:30 L867860-52 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920164	1	10/24/16 13:54	10/25/16 08:58	LTB
Total Solids by Method 2540 G-2011	WG920424	1	10/25/16 08:23	10/25/16 08:32	KDW

G119:0 L867860-53 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920164	1	10/24/16 13:54	10/25/16 09:01	LTB
Total Solids by Method 2540 G-2011	WG920424	1	10/25/16 08:23	10/25/16 08:32	KDW

G119:18 L867860-54 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920164	1	10/24/16 13:54	10/25/16 09:09	LTB
Total Solids by Method 2540 G-2011	WG920424	1	10/25/16 08:23	10/25/16 08:32	KDW

G119:30 L867860-55 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920164	1	10/24/16 13:54	10/25/16 09:12	LTB
Total Solids by Method 2540 G-2011	WG920424	1	10/25/16 08:23	10/25/16 08:32	KDW

N-67:0 L867860-56 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920164	1	10/24/16 13:54	10/25/16 09:14	LTB
Total Solids by Method 2540 G-2011	WG920424	1	10/25/16 08:23	10/25/16 08:32	KDW

N-67:18 L867860-57 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920164	1	10/24/16 13:54	10/25/16 09:17	LTB
Total Solids by Method 2540 G-2011	WG920424	1	10/25/16 08:23	10/25/16 08:32	KDW

U111:0 L867860-58 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920164	1	10/24/16 13:54	10/25/16 09:20	LTB
Total Solids by Method 2540 G-2011	WG920425	1	10/25/16 08:28	10/25/16 08:40	MEL

U111:18 L867860-59 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920164	1	10/24/16 13:54	10/25/16 09:22	LTB
Total Solids by Method 2540 G-2011	WG920425	1	10/25/16 08:28	10/25/16 08:40	MEL

U111:30 L867860-60 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920164	1	10/24/16 13:54	10/25/16 09:25	LTB
Total Solids by Method 2540 G-2011	WG920425	1	10/25/16 08:28	10/25/16 08:40	MEL

X-74:0 L867860-61 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920165	1	10/24/16 14:09	10/25/16 09:46	LTB
Total Solids by Method 2540 G-2011	WG920425	1	10/25/16 08:28	10/25/16 08:40	MEL

X-74:18 L867860-62 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920165	1	10/24/16 14:09	10/25/16 09:59	LTB
Total Solids by Method 2540 G-2011	WG920425	1	10/25/16 08:28	10/25/16 08:40	MEL

X-74:30 L867860-63 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920165	1	10/24/16 14:09	10/25/16 10:01	LTB
Total Solids by Method 2540 G-2011	WG920425	1	10/25/16 08:28	10/25/16 08:40	MEL

00F-75:18 L867860-64 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920165	1	10/24/16 14:09	10/25/16 10:09	LTB
Total Solids by Method 2540 G-2011	WG920425	1	10/25/16 08:28	10/25/16 08:40	MEL

00F-75:30 L867860-65 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920165	1	10/24/16 14:09	10/25/16 10:12	LTB
Total Solids by Method 2540 G-2011	WG920425	1	10/25/16 08:28	10/25/16 08:40	MEL

00F-94:0 L867860-66 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920165	1	10/24/16 14:09	10/25/16 10:15	LTB
Total Solids by Method 2540 G-2011	WG920425	1	10/25/16 08:28	10/25/16 08:40	MEL

00M-89:0 L867860-67 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920165	1	10/24/16 14:09	10/25/16 10:18	LTB
Total Solids by Method 2540 G-2011	WG920425	1	10/25/16 08:28	10/25/16 08:40	MEL

00M-89:18 L867860-68 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920165	1	10/24/16 14:09	10/25/16 10:20	LTB
Total Solids by Method 2540 G-2011	WG920426	1	10/25/16 08:02	10/25/16 08:20	KDW

00M-89:30 L867860-69 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920165	1	10/24/16 14:09	10/25/16 10:23	LTB
Total Solids by Method 2540 G-2011	WG920426	1	10/25/16 08:02	10/25/16 08:20	KDW

00N118:0 L867860-70 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920165	1	10/24/16 14:09	10/25/16 10:26	LTB
Total Solids by Method 2540 G-2011	WG920426	1	10/25/16 08:02	10/25/16 08:20	KDW

00N118:18 L867860-71 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920165	1	10/24/16 14:09	10/25/16 10:28	LTB
Total Solids by Method 2540 G-2011	WG920426	1	10/25/16 08:02	10/25/16 08:20	KDW

00N118:30 L867860-72 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920165	1	10/24/16 14:09	10/25/16 10:31	LTB
Total Solids by Method 2540 G-2011	WG920426	1	10/25/16 08:02	10/25/16 08:20	KDW

00P125:0 L867860-73 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920165	1	10/24/16 14:09	10/25/16 10:34	LTB
Total Solids by Method 2540 G-2011	WG920426	1	10/25/16 08:02	10/25/16 08:20	KDW

00P125:18 L867860-74 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920165	1	10/24/16 14:09	10/25/16 10:42	LTB
Total Solids by Method 2540 G-2011	WG920426	1	10/25/16 08:02	10/25/16 08:20	KDW

00P125:30 L867860-75 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920165	1	10/24/16 14:09	10/25/16 10:45	LTB
Total Solids by Method 2540 G-2011	WG920426	1	10/25/16 08:02	10/25/16 08:20	KDW

00P-99:0 L867860-76 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920165	1	10/24/16 14:09	10/25/16 10:47	LTB
Total Solids by Method 2540 G-2011	WG920426	1	10/25/16 08:02	10/25/16 08:20	KDW

00P-99:18 L867860-77 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920165	1	10/24/16 14:09	10/25/16 10:50	LTB
Total Solids by Method 2540 G-2011	WG920426	1	10/25/16 08:02	10/25/16 08:20	KDW

00P-99:30 L867860-78 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920165	1	10/24/16 14:09	10/25/16 10:53	LTB
Total Solids by Method 2540 G-2011	WG920525	1	10/26/16 13:24	10/26/16 13:35	MEL

00Q109:0 L867860-79 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920165	1	10/24/16 14:09	10/25/16 10:55	LTB
Total Solids by Method 2540 G-2011	WG920526	1	10/25/16 13:57	10/25/16 14:06	MEL

00Q109:12 L867860-80 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920165	1	10/24/16 14:09	10/25/16 10:58	LTB
Total Solids by Method 2540 G-2011	WG920526	1	10/25/16 13:57	10/25/16 14:06	MEL

00R-61:0 L867860-81 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920166	1	10/24/16 17:36	10/25/16 10:53	LTB
Total Solids by Method 2540 G-2011	WG920526	1	10/25/16 13:57	10/25/16 14:06	MEL

00R-61:18 L867860-82 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920166	1	10/24/16 17:36	10/25/16 11:01	LTB
Total Solids by Method 2540 G-2011	WG920526	1	10/25/16 13:57	10/25/16 14:06	MEL

00R-61:30 L867860-83 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920166	1	10/24/16 17:36	10/25/16 11:03	LTB
Total Solids by Method 2540 G-2011	WG920526	1	10/25/16 13:57	10/25/16 14:06	MEL

00S-96:0 L867860-84 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920166	1	10/24/16 17:36	10/25/16 11:06	LTB
Total Solids by Method 2540 G-2011	WG920526	1	10/25/16 13:57	10/25/16 14:06	MEL

00S-96:18 L867860-85 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920166	1	10/24/16 17:36	10/25/16 11:09	LTB
Total Solids by Method 2540 G-2011	WG920526	1	10/25/16 13:57	10/25/16 14:06	MEL

00S-96:30 L867860-86 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920166	1	10/24/16 17:36	10/25/16 11:11	LTB
Total Solids by Method 2540 G-2011	WG920526	1	10/25/16 13:57	10/25/16 14:06	MEL

00W97:0 L867860-87 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920166	1	10/24/16 17:36	10/25/16 11:14	LTB
Total Solids by Method 2540 G-2011	WG920526	1	10/25/16 13:57	10/25/16 14:06	MEL

00W97:18 L867860-88 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920166	1	10/24/16 17:36	10/25/16 11:16	LTB
Total Solids by Method 2540 G-2011	WG920526	1	10/25/16 13:57	10/25/16 14:06	MEL

00W97:30 L867860-89 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920166	1	10/24/16 17:36	10/25/16 14:27	ST
Total Solids by Method 2540 G-2011	WG920527	1	10/25/16 13:42	10/25/16 13:54	MEL

00Z125:18 L867860-90 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920166	1	10/24/16 17:36	10/25/16 10:37	LTB
Total Solids by Method 2540 G-2011	WG920527	1	10/25/16 13:42	10/25/16 13:54	MEL

0A133:0 L867860-91 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920166	1	10/24/16 17:36	10/25/16 11:22	LTB
Total Solids by Method 2540 G-2011	WG920527	1	10/25/16 13:42	10/25/16 13:54	MEL

0A23:0 L867860-92 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920166	1	10/24/16 17:36	10/25/16 11:25	LTB
Total Solids by Method 2540 G-2011	WG920527	1	10/25/16 13:42	10/25/16 13:54	MEL

0A23:18 L867860-93 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920166	1	10/24/16 17:36	10/25/16 11:33	LTB
Total Solids by Method 2540 G-2011	WG920527	1	10/25/16 13:42	10/25/16 13:54	MEL

0A23:30 L867860-94 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920166	1	10/24/16 17:36	10/25/16 11:35	LTB
Total Solids by Method 2540 G-2011	WG920527	1	10/25/16 13:42	10/25/16 13:54	MEL

0C34:0 L867860-95 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920166	1	10/24/16 17:36	10/25/16 11:38	LTB
Total Solids by Method 2540 G-2011	WG920527	1	10/25/16 13:42	10/25/16 13:54	MEL

0C34:18 L867860-96 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920166	1	10/24/16 17:36	10/25/16 11:41	LTB
Total Solids by Method 2540 G-2011	WG920527	1	10/25/16 13:42	10/25/16 13:54	MEL

0C34:30 L867860-97 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920166	1	10/24/16 17:36	10/25/16 11:43	LTB
Total Solids by Method 2540 G-2011	WG920527	1	10/25/16 13:42	10/25/16 13:54	MEL

0C85:0 L867860-98 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920166	1	10/24/16 17:36	10/25/16 11:46	LTB
Total Solids by Method 2540 G-2011	WG920527	1	10/25/16 13:42	10/25/16 13:54	MEL

0C85:18 L867860-99 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920166	1	10/24/16 17:36	10/25/16 11:48	LTB
Total Solids by Method 2540 G-2011	WG920529	1	10/25/16 13:58	10/25/16 14:06	KDW

0C-99:0 L867860-100 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920166	1	10/24/16 17:36	10/25/16 10:50	LTB
Total Solids by Method 2540 G-2011	WG920417	1	10/25/16 08:56	10/25/16 09:07	KDW

0C-99:18 L867860-101 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920168	1	10/24/16 18:03	10/25/16 10:51	LTB
Total Solids by Method 2540 G-2011	WG920417	1	10/25/16 08:56	10/25/16 09:07	KDW

0C-99:30 L867860-102 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920168	1	10/24/16 18:03	10/25/16 10:54	LTB
Total Solids by Method 2540 G-2011	WG920417	1	10/25/16 08:56	10/25/16 09:07	KDW

0E42:0 L867860-103 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920168	1	10/24/16 18:03	10/25/16 11:03	LTB
Total Solids by Method 2540 G-2011	WG920417	1	10/25/16 08:56	10/25/16 09:07	KDW

0E42:18 L867860-104 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920168	1	10/24/16 18:03	10/25/16 11:06	LTB
Total Solids by Method 2540 G-2011	WG920417	1	10/25/16 08:56	10/25/16 09:07	KDW

0E42:30 L867860-105 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920168	1	10/24/16 18:03	10/25/16 10:37	LTB
Total Solids by Method 2540 G-2011	WG920417	1	10/25/16 08:56	10/25/16 09:07	KDW

0F11:0 L867860-106 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920168	1	10/24/16 18:03	10/25/16 11:09	LTB
Total Solids by Method 2540 G-2011	WG920417	1	10/25/16 08:56	10/25/16 09:07	KDW

0F11:18 L867860-107 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920168	1	10/24/16 18:03	10/25/16 11:12	LTB
Total Solids by Method 2540 G-2011	WG920417	1	10/25/16 08:56	10/25/16 09:07	KDW

0F11:30 L867860-108 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920168	1	10/24/16 18:03	10/25/16 11:15	LTB
Total Solids by Method 2540 G-2011	WG920417	1	10/25/16 08:56	10/25/16 09:07	KDW

0F128:0 L867860-109 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920168	1	10/24/16 18:03	10/25/16 11:18	LTB
Total Solids by Method 2540 G-2011	WG920417	1	10/25/16 08:56	10/25/16 09:07	KDW

0F128:18 L867860-110 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920168	1	10/24/16 18:03	10/25/16 11:20	LTB
Total Solids by Method 2540 G-2011	WG920418	1	10/25/16 08:39	10/25/16 08:50	KDW

0F128:30 L867860-111 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920168	1	10/24/16 18:03	10/25/16 11:23	LTB
Total Solids by Method 2540 G-2011	WG920418	1	10/25/16 08:39	10/25/16 08:50	KDW

0F50:0 L867860-112 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920168	1	10/24/16 18:03	10/25/16 11:26	LTB
Total Solids by Method 2540 G-2011	WG920418	1	10/25/16 08:39	10/25/16 08:50	KDW

0F50:18 L867860-113 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920168	1	10/24/16 18:03	10/25/16 11:29	LTB
Total Solids by Method 2540 G-2011	WG920418	1	10/25/16 08:39	10/25/16 08:50	KDW

0F50:30 L867860-114 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920168	1	10/24/16 18:03	10/25/16 11:38	LTB
Total Solids by Method 2540 G-2011	WG920418	1	10/25/16 08:39	10/25/16 08:50	KDW

0F59:0 L867860-115 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920168	1	10/24/16 18:03	10/25/16 11:41	LTB
Total Solids by Method 2540 G-2011	WG920418	1	10/25/16 08:39	10/25/16 08:50	KDW

0F59:18 L867860-116 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920168	1	10/24/16 18:03	10/25/16 11:44	LTB
Total Solids by Method 2540 G-2011	WG920418	1	10/25/16 08:39	10/25/16 08:50	KDW

0F59:30 L867860-117 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920168	1	10/24/16 18:03	10/25/16 11:47	LTB
Total Solids by Method 2540 G-2011	WG920418	1	10/25/16 08:39	10/25/16 08:50	KDW

0F74:0 L867860-118 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920168	1	10/24/16 18:03	10/25/16 11:50	LTB
Total Solids by Method 2540 G-2011	WG920418	1	10/25/16 08:39	10/25/16 08:50	KDW

0F74:18 L867860-119 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920168	1	10/24/16 18:03	10/25/16 11:53	LTB
Total Solids by Method 2540 G-2011	WG920418	1	10/25/16 08:39	10/25/16 08:50	KDW

0F74:30 L867860-120 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920168	1	10/24/16 18:03	10/25/16 11:56	LTB
Total Solids by Method 2540 G-2011	WG920420	1	10/25/16 10:09	10/25/16 10:17	MEL

0J-52:0 L867860-121 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920169	1	10/25/16 18:09	10/26/16 16:19	ST
Total Solids by Method 2540 G-2011	WG920420	1	10/25/16 10:09	10/25/16 10:17	MEL

0J-52:18 L867860-122 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920169	1	10/25/16 18:09	10/26/16 16:22	ST
Total Solids by Method 2540 G-2011	WG920420	1	10/25/16 10:09	10/25/16 10:17	MEL

0J-52:30 L867860-123 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920169	1	10/25/16 18:09	10/26/16 16:25	ST
Total Solids by Method 2540 G-2011	WG920420	1	10/25/16 10:09	10/25/16 10:17	MEL

0M128:0 L867860-124 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920169	1	10/25/16 18:09	10/26/16 16:28	ST
Total Solids by Method 2540 G-2011	WG920420	1	10/25/16 10:09	10/25/16 10:17	MEL

0M128:18 L867860-125 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920169	1	10/25/16 18:09	10/26/16 16:36	ST
Total Solids by Method 2540 G-2011	WG920420	1	10/25/16 10:09	10/25/16 10:17	MEL

0M128:30 L867860-126 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920169	1	10/25/16 18:09	10/26/16 16:38	ST
Total Solids by Method 2540 G-2011	WG920420	1	10/25/16 10:09	10/25/16 10:17	MEL

OS-58:0 L867860-127 Solid

Collected by: Alan Hopkins
Collected date/time: 10/18/16 00:00
Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920169	1	10/25/16 18:09	10/26/16 16:41	ST
Total Solids by Method 2540 G-2011	WG920420	1	10/25/16 10:09	10/25/16 10:17	MEL

OS-58:18 L867860-128 Solid

Collected by: Alan Hopkins
Collected date/time: 10/18/16 00:00
Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920169	1	10/25/16 18:09	10/26/16 16:44	ST
Total Solids by Method 2540 G-2011	WG920420	1	10/25/16 10:09	10/25/16 10:17	MEL

OS-58:30 L867860-129 Solid

Collected by: Alan Hopkins
Collected date/time: 10/18/16 00:00
Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920169	1	10/25/16 18:09	10/26/16 16:46	ST
Total Solids by Method 2540 G-2011	WG920420	1	10/25/16 10:09	10/25/16 10:17	MEL

AC-81:0 L867860-130 Solid

Collected by: Alan Hopkins
Collected date/time: 10/18/16 00:00
Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920169	1	10/25/16 18:09	10/26/16 16:49	ST
Total Solids by Method 2540 G-2011	WG920421	1	10/25/16 09:56	10/25/16 10:06	MEL

AC-81:18 L867860-131 Solid

Collected by: Alan Hopkins
Collected date/time: 10/18/16 00:00
Received date/time: 10/22/16 09:00

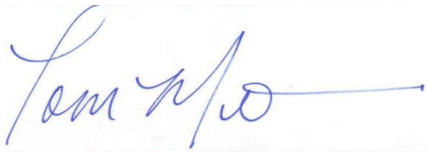
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920169	1	10/25/16 18:09	10/26/16 15:39	ST
Total Solids by Method 2540 G-2011	WG920421	1	10/25/16 09:56	10/25/16 10:06	MEL

AC-81:30 L867860-132 Solid

Collected by: Alan Hopkins
Collected date/time: 10/18/16 00:00
Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920169	1	10/25/16 18:09	10/26/16 16:52	ST
Total Solids by Method 2540 G-2011	WG920421	1	10/25/16 09:56	10/25/16 10:06	MEL

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Tom Mellette
Technical Service Representative

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	67.6		1	10/25/2016 10:50	WG920272

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	78.8		1.48	1	10/26/2016 12:32	WG920162

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.1		1	10/25/2016 10:50	WG920272

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	97.9		1.23	1	10/26/2016 12:34	WG920162

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.7		1	10/25/2016 10:50	WG920272

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	103		1.24	1	10/26/2016 12:43	WG920162

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	71.2		1	10/25/2016 10:50	WG920272

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	63.3		1.40	1	10/26/2016 12:45	WG920162

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.4		1	10/25/2016 10:50	WG920272

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	102		1.28	1	10/26/2016 12:48	WG920162

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.0		1	10/25/2016 10:50	WG920272

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	93.1		1.30	1	10/26/2016 12:51	WG920162

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	55.4		1	10/25/2016 10:50	WG920272

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	89.4		1.80	1	10/26/2016 12:53	WG920162

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.5		1	10/25/2016 10:50	WG920272

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	101		1.27	1	10/26/2016 13:03	WG920162

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.9		1	10/25/2016 10:50	WG920272

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	129		1.32	1	10/26/2016 13:06	WG920162

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	71.1		1	10/25/2016 10:50	WG920272

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	81.1		1.41	1	10/26/2016 13:09	WG920162

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	73.1		1	10/25/2016 10:25	WG920273

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	98.0		1.37	1	10/26/2016 13:11	WG920162

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	73.8		1	10/25/2016 10:25	WG920273

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	80.0		1.35	1	10/26/2016 13:14	WG920162

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	71.5		1	10/25/2016 10:25	WG920273

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	114		1.40	1	10/26/2016 13:41	WG920162

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.3		1	10/25/2016 10:25	WG920273

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	334		1.26	1	10/26/2016 13:44	WG920162

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	68.8		1	10/25/2016 10:25	WG920273

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	77.8		1.45	1	10/26/2016 13:47	WG920162

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	69.0		1	10/25/2016 10:25	WG920273

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	74.3		1.45	1	10/26/2016 13:50	WG920162

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.5		1	10/25/2016 10:25	WG920273

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	77.0		1.21	1	10/26/2016 13:52	WG920162

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.3		1	10/25/2016 10:25	WG920273

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	88.0		1.28	1	10/26/2016 13:55	WG920162

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	70.1		1	10/25/2016 10:25	WG920273

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	64.0		1.43	1	10/26/2016 13:58	WG920162

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	73.6		1	10/25/2016 10:25	WG920273

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	71.3	O1	1.36	1	10/26/2016 12:19	WG920162

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	71.7		1	10/25/2016 10:06	WG920421

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	75.4		1.40	1	10/26/2016 16:17	WG920163

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	71.4		1	10/25/2016 10:06	WG920421

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	95.5		1.40	1	10/26/2016 16:32	WG920163

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.2		1	10/25/2016 10:06	WG920421

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	104		1.29	1	10/26/2016 16:35	WG920163

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	73.4		1	10/25/2016 10:06	WG920421

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	77.6		1.36	1	10/26/2016 16:43	WG920163

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	62.1		1	10/25/2016 10:06	WG920421

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	99.9		1.61	1	10/26/2016 16:46	WG920163

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	74.8		1	10/25/2016 10:06	WG920421

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	93.9		1.34	1	10/26/2016 16:49	WG920163

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	73.3		1	10/25/2016 10:06	WG920421

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	96.7		1.36	1	10/26/2016 16:52	WG920163

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	63.2		1	10/25/2016 09:24	WG920422

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	85.2		1.58	1	10/26/2016 16:55	WG920163

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.8		1	10/25/2016 09:24	WG920422

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	106		1.25	1	10/26/2016 16:58	WG920163

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.8		1	10/25/2016 09:24	WG920422

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	96.6		1.32	1	10/26/2016 17:01	WG920163

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	62.7		1	10/25/2016 09:24	WG920422

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	104		1.59	1	10/26/2016 17:04	WG920163

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	67.2		1	10/25/2016 09:24	WG920422

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	121		1.49	1	10/26/2016 17:07	WG920163

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.7		1	10/25/2016 09:24	WG920422

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	64.3		1.22	1	10/26/2016 17:10	WG920163

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	67.7		1	10/25/2016 09:24	WG920422

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	110		1.48	1	10/26/2016 17:19	WG920163

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.0		1	10/25/2016 09:24	WG920422

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	104		1.32	1	10/26/2016 17:22	WG920163

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	70.3		1	10/25/2016 09:24	WG920422

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	114		1.42	1	10/26/2016 17:25	WG920163

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.6		1	10/25/2016 09:24	WG920422

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	118		1.23	1	10/26/2016 17:28	WG920163

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	67.1		1	10/25/2016 08:57	WG920423

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	147		1.49	1	10/26/2016 17:31	WG920163

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.0		1	10/25/2016 08:57	WG920423

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	201		1.32	1	10/26/2016 17:34	WG920163

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.5		1	10/25/2016 08:57	WG920423

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	104		1.26	1	10/26/2016 17:37	WG920163

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	62.3		1	10/25/2016 08:57	WG920423

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	123		1.61	1	10/25/2016 08:13	WG920164

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	71.0		1	10/25/2016 08:57	WG920423

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	159		1.41	1	10/25/2016 08:26	WG920164

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	74.5		1	10/25/2016 08:57	WG920423

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	195		1.34	1	10/25/2016 08:28	WG920164

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	73.5		1	10/25/2016 08:57	WG920423

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	254		1.36	1	10/25/2016 08:36	WG920164

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.4		1	10/25/2016 08:57	WG920423

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	783		1.23	1	10/25/2016 08:39	WG920164

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.8		1	10/25/2016 08:57	WG920423

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	268		1.11	1	10/25/2016 08:42	WG920164

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.9		1	10/25/2016 08:57	WG920423

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	95.9		1.30	1	10/25/2016 08:45	WG920164

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.1	J3	1	10/25/2016 08:32	WG920424

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	144		1.15	1	10/25/2016 08:47	WG920164

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.3		1	10/25/2016 08:32	WG920424

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	89.1		1.31	1	10/25/2016 08:50	WG920164

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.8		1	10/25/2016 08:32	WG920424

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	60.9		1.18	1	10/25/2016 08:53	WG920164

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.6		1	10/25/2016 08:32	WG920424

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	66.6		1.12	1	10/25/2016 08:56	WG920164

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.6		1	10/25/2016 08:32	WG920424

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	75.4		1.10	1	10/25/2016 08:58	WG920164

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	58.4		1	10/25/2016 08:32	WG920424

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	93.2		1.71	1	10/25/2016 09:01	WG920164

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.5		1	10/25/2016 08:32	WG920424

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	103		1.31	1	10/25/2016 09:09	WG920164

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.7		1	10/25/2016 08:32	WG920424

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	88.3		1.32	1	10/25/2016 09:12	WG920164

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.1		1	10/25/2016 08:32	WG920424

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	62.8		1.31	1	10/25/2016 09:14	WG920164

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.5		1	10/25/2016 08:32	WG920424

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	66.7		1.16	1	10/25/2016 09:17	WG920164

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	69.7		1	10/25/2016 08:40	WG920425

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	81.9		1.43	1	10/25/2016 09:20	WG920164

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.3		1	10/25/2016 08:40	WG920425

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	81.9		1.19	1	10/25/2016 09:22	WG920164

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.2		1	10/25/2016 08:40	WG920425

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	117		1.31	1	10/25/2016 09:25	WG920164

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.0		1	10/25/2016 08:40	WG920425

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	147	O1	1.23	1	10/25/2016 09:46	WG920165

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.1		1	10/25/2016 08:40	WG920425

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	209		1.10	1	10/25/2016 09:59	WG920165

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.3		1	10/25/2016 08:40	WG920425

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	214		1.08	1	10/25/2016 10:01	WG920165

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.1		1	10/25/2016 08:40	WG920425

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	147		1.30	1	10/25/2016 10:09	WG920165

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	74.6		1	10/25/2016 08:40	WG920425

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	88.7		1.34	1	10/25/2016 10:12	WG920165

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	59.3		1	10/25/2016 08:40	WG920425

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	90.0		1.69	1	10/25/2016 10:15	WG920165

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.7		1	10/25/2016 08:40	WG920425

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	95.2		1.27	1	10/25/2016 10:18	WG920165

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	74.6		1	10/25/2016 08:20	WG920426

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	81.8		1.34	1	10/25/2016 10:20	WG920165

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	72.1		1	10/25/2016 08:20	WG920426

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	79.5		1.39	1	10/25/2016 10:23	WG920165

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	69.1		1	10/25/2016 08:20	WG920426

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	56.2		1.45	1	10/25/2016 10:26	WG920165

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.1		1	10/25/2016 08:20	WG920426

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	82.7		1.30	1	10/25/2016 10:28	WG920165

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.8		1	10/25/2016 08:20	WG920426

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	89.2		1.30	1	10/25/2016 10:31	WG920165

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	56.7		1	10/25/2016 08:20	WG920426

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	57.4		1.76	1	10/25/2016 10:34	WG920165

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	71.3		1	10/25/2016 08:20	WG920426

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	86.5		1.40	1	10/25/2016 10:42	WG920165

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.6		1	10/25/2016 08:20	WG920426

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	102		1.29	1	10/25/2016 10:45	WG920165

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	49.8		1	10/25/2016 08:20	WG920426

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	74.0		2.01	1	10/25/2016 10:47	WG920165

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	67.9		1	10/25/2016 08:20	WG920426

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	90.1		1.47	1	10/25/2016 10:50	WG920165

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	70.5		1	10/26/2016 13:35	WG920525

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	80.8		1.42	1	10/25/2016 10:53	WG920165

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.4		1	10/25/2016 14:06	WG920526

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	54.8		1.31	1	10/25/2016 10:55	WG920165

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.3		1	10/25/2016 14:06	WG920526

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	61.6		1.23	1	10/25/2016 10:58	WG920165

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.2		1	10/25/2016 14:06	WG920526

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	63.8		1.28	1	10/25/2016 10:53	WG920166

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.5		1	10/25/2016 14:06	WG920526

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	61.8		1.24	1	10/25/2016 11:01	WG920166

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	65.7		1	10/25/2016 14:06	WG920526

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	89.4		1.52	1	10/25/2016 11:03	WG920166

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	66.2		1	10/25/2016 14:06	WG920526

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	77.8		1.51	1	10/25/2016 11:06	WG920166

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.9		1	10/25/2016 14:06	WG920526

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	84.3		1.25	1	10/25/2016 11:09	WG920166

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	68.1		1	10/25/2016 14:06	WG920526

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	81.8		1.47	1	10/25/2016 11:11	WG920166

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	57.4		1	10/25/2016 14:06	WG920526

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	13.1		1.74	1	10/25/2016 11:14	WG920166

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.7		1	10/25/2016 14:06	WG920526

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	84.5		1.22	1	10/25/2016 11:16	WG920166

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.1		1	10/25/2016 13:54	WG920527

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	90.3		1.28	1	10/25/2016 14:27	WG920166

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	68.1		1	10/25/2016 13:54	WG920527

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	68.4		1.47	1	10/25/2016 10:37	WG920166

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	64.7		1	10/25/2016 13:54	WG920527

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	79.1		1.55	1	10/25/2016 11:22	WG920166

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	73.7		1	10/25/2016 13:54	WG920527

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	75.2		1.36	1	10/25/2016 11:25	WG920166

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.8		1	10/25/2016 13:54	WG920527

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	75.4		1.27	1	10/25/2016 11:33	WG920166

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.9		1	10/25/2016 13:54	WG920527

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	84.1		1.32	1	10/25/2016 11:35	WG920166

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	70.2		1	10/25/2016 13:54	WG920527

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	64.8		1.42	1	10/25/2016 11:38	WG920166

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	73.7		1	10/25/2016 13:54	WG920527

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	79.5		1.36	1	10/25/2016 11:41	WG920166

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.6		1	10/25/2016 13:54	WG920527

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	85.6		1.32	1	10/25/2016 11:43	WG920166

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.4		1	10/25/2016 13:54	WG920527

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	44.3		1.20	1	10/25/2016 11:46	WG920166

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.2		1	10/25/2016 14:06	WG920529

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	57.8		1.28	1	10/25/2016 11:48	WG920166

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	69.6		1	10/25/2016 09:07	WG920417

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	83.2		1.44	1	10/25/2016 10:50	WG920166

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.4		1	10/25/2016 09:07	WG920417

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	112		1.28	1	10/25/2016 10:51	WG920168

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.9		1	10/25/2016 09:07	WG920417

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	114		1.27	1	10/25/2016 10:54	WG920168

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	71.2		1	10/25/2016 09:07	WG920417

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	73.5		1.41	1	10/25/2016 11:03	WG920168

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	69.0		1	10/25/2016 09:07	WG920417

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	61.8		1.45	1	10/25/2016 11:06	WG920168

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.0		1	10/25/2016 09:07	WG920417

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	66.8		1.24	1	10/25/2016 10:37	WG920168

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	68.6		1	10/25/2016 09:07	WG920417

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	88.4		1.46	1	10/25/2016 11:09	WG920168

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	70.8		1	10/25/2016 09:07	WG920417

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	84.3		1.41	1	10/25/2016 11:12	WG920168

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	74.8		1	10/25/2016 09:07	WG920417

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	97.2		1.34	1	10/25/2016 11:15	WG920168

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	67.5		1	10/25/2016 09:07	WG920417

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	82.3		1.48	1	10/25/2016 11:18	WG920168

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.4		1	10/25/2016 08:50	WG920418

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	92.3		1.27	1	10/25/2016 11:20	WG920168

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.5		1	10/25/2016 08:50	WG920418

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	109		1.26	1	10/25/2016 11:23	WG920168

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	60.8		1	10/25/2016 08:50	WG920418

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	68.9		1.65	1	10/25/2016 11:26	WG920168

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	63.5		1	10/25/2016 08:50	WG920418

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	85.2		1.57	1	10/25/2016 11:29	WG920168

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	72.4		1	10/25/2016 08:50	WG920418

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	111		1.38	1	10/25/2016 11:38	WG920168

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	67.3		1	10/25/2016 08:50	WG920418

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	70.5		1.49	1	10/25/2016 11:41	WG920168

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	67.2		1	10/25/2016 08:50	WG920418

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	90.2		1.49	1	10/25/2016 11:44	WG920168

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	74.1		1	10/25/2016 08:50	WG920418

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	88.1		1.35	1	10/25/2016 11:47	WG920168

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	63.5		1	10/25/2016 08:50	WG920418

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	69.3		1.57	1	10/25/2016 11:50	WG920168

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	69.9		1	10/25/2016 08:50	WG920418

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	95.4		1.43	1	10/25/2016 11:53	WG920168

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.6		1	10/25/2016 10:17	WG920420

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	146		1.29	1	10/25/2016 11:56	WG920168

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.1		1	10/25/2016 10:17	WG920420

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	72.0		1.20	1	10/26/2016 16:19	WG920169

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.3		1	10/25/2016 10:17	WG920420

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	78.1		1.11	1	10/26/2016 16:22	WG920169

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.6		1	10/25/2016 10:17	WG920420

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	71.7		1.09	1	10/26/2016 16:25	WG920169

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	67.3		1	10/25/2016 10:17	WG920420

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	69.1		1.49	1	10/26/2016 16:28	WG920169

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.8		1	10/25/2016 10:17	WG920420

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	117		1.27	1	10/26/2016 16:36	WG920169

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.7		1	10/25/2016 10:17	WG920420

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	99.5		1.27	1	10/26/2016 16:38	WG920169

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	74.2		1	10/25/2016 10:17	WG920420

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	71.4		1.35	1	10/26/2016 16:41	WG920169

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.6		1	10/25/2016 10:17	WG920420

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	69.8		1.27	1	10/26/2016 16:44	WG920169

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.6		1	10/25/2016 10:17	WG920420

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	81.9		1.18	1	10/26/2016 16:46	WG920169

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.2		1	10/25/2016 10:06	WG920421

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	66.5		1.17	1	10/26/2016 16:49	WG920169

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.8		1	10/25/2016 10:06	WG920421

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	63.5		1.14	1	10/26/2016 15:39	WG920169

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.2		1	10/25/2016 10:06	WG920421

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	99.0		1.25	1	10/26/2016 16:52	WG920169

Method Blank (MB)

(MB) R3173302-1 10/25/16 10:50

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L867860-02 Original Sample (OS) • Duplicate (DUP)

(OS) L867860-02 10/25/16 10:50 • (DUP) R3173302-3 10/25/16 10:50

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	81.1	77.6	1	4.44		5

Laboratory Control Sample (LCS)

(LCS) R3173302-2 10/25/16 10:50

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3173301-1 10/25/16 10:25

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000200			

L867860-20 Original Sample (OS) • Duplicate (DUP)

(OS) L867860-20 10/25/16 10:25 • (DUP) R3173301-3 10/25/16 10:25

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	73.6	75.2	1	2.13		5

Laboratory Control Sample (LCS)

(LCS) R3173301-2 10/25/16 10:25

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	49.9	99.9	85.0-115	

Method Blank (MB)

(MB) R3173288-1 10/25/16 09:07

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000600			

L867860-101 Original Sample (OS) • Duplicate (DUP)

(OS) L867860-101 10/25/16 09:07 • (DUP) R3173288-3 10/25/16 09:07

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	78.4	77.9	1	0.618		5

Laboratory Control Sample (LCS)

(LCS) R3173288-2 10/25/16 09:07

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3173286-1 10/25/16 08:50

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L867860-119 Original Sample (OS) • Duplicate (DUP)

(OS) L867860-119 10/25/16 08:50 • (DUP) R3173286-3 10/25/16 08:50

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	69.9	72.0	1	2.89		5

Laboratory Control Sample (LCS)

(LCS) R3173286-2 10/25/16 08:50

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	99.9	85.0-115	

Method Blank (MB)

(MB) R3173255-1 10/25/16 10:17

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000600			

L867860-125 Original Sample (OS) • Duplicate (DUP)

(OS) L867860-125 10/25/16 10:17 • (DUP) R3173255-3 10/25/16 10:17

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	78.8	79.2	1	0.502		5

Laboratory Control Sample (LCS)

(LCS) R3173255-2 10/25/16 10:17

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3173254-1 10/25/16 10:06

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000300			

L867860-26 Original Sample (OS) • Duplicate (DUP)

(OS) L867860-26 10/25/16 10:06 • (DUP) R3173254-3 10/25/16 10:06

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	74.8	74.5	1	0.404		5

Laboratory Control Sample (LCS)

(LCS) R3173254-2 10/25/16 10:06

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3173250-1 10/25/16 09:24

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000100			

L867860-30 Original Sample (OS) • Duplicate (DUP)

(OS) L867860-30 10/25/16 09:24 • (DUP) R3173250-3 10/25/16 09:24

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	75.8	76.8	1	1.30		5

Laboratory Control Sample (LCS)

(LCS) R3173250-2 10/25/16 09:24

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3173249-1 10/25/16 08:57

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000400			

L867860-38 Original Sample (OS) • Duplicate (DUP)

(OS) L867860-38 10/25/16 08:57 • (DUP) R3173249-3 10/25/16 08:57

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	67.1	64.4	1	3.97		5

Laboratory Control Sample (LCS)

(LCS) R3173249-2 10/25/16 08:57

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3173284-1 10/25/16 08:32

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000400			

L867860-48 Original Sample (OS) • Duplicate (DUP)

(OS) L867860-48 10/25/16 08:32 • (DUP) R3173284-3 10/25/16 08:32

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	87.1	81.5	1	6.73	J3	5

Laboratory Control Sample (LCS)

(LCS) R3173284-2 10/25/16 08:32

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	99.9	85.0-115	

Method Blank (MB)

(MB) R3173248-1 10/25/16 08:40

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000500			

L867860-58 Original Sample (OS) • Duplicate (DUP)

(OS) L867860-58 10/25/16 08:40 • (DUP) R3173248-3 10/25/16 08:40

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	69.7	70.7	1	1.45		5

Laboratory Control Sample (LCS)

(LCS) R3173248-2 10/25/16 08:40

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3173274-1 10/25/16 08:20

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000200			

L867860-68 Original Sample (OS) • Duplicate (DUP)

(OS) L867860-68 10/25/16 08:20 • (DUP) R3173274-3 10/25/16 08:20

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	74.6	75.9	1	1.79		5

Laboratory Control Sample (LCS)

(LCS) R3173274-2 10/25/16 08:20

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	99.9	85.0-115	

Method Blank (MB)

(MB) R3173625-1 10/26/16 13:35

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000100			

L867826-01 Original Sample (OS) • Duplicate (DUP)

(OS) L867826-01 10/26/16 13:35 • (DUP) R3173625-3 10/26/16 13:35

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	86.7	85.0	1	1.96		5

Laboratory Control Sample (LCS)

(LCS) R3173625-2 10/26/16 13:35

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3173261-1 10/25/16 14:06

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000900			

L867860-88 Original Sample (OS) • Duplicate (DUP)

(OS) L867860-88 10/25/16 14:06 • (DUP) R3173261-3 10/25/16 14:06

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	81.7	83.4	1	2.17		5

Laboratory Control Sample (LCS)

(LCS) R3173261-2 10/25/16 14:06

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	99.9	85.0-115	

Method Blank (MB)

(MB) R3173260-1 10/25/16 13:54

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000100			

L867860-89 Original Sample (OS) • Duplicate (DUP)

(OS) L867860-89 10/25/16 13:54 • (DUP) R3173260-3 10/25/16 13:54

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	78.1	77.9	1	0.271		5

Laboratory Control Sample (LCS)

(LCS) R3173260-2 10/25/16 13:54

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3173318-1 10/25/16 14:06

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00110			

L867869-08 Original Sample (OS) • Duplicate (DUP)

(OS) L867869-08 10/25/16 14:06 • (DUP) R3173318-3 10/25/16 14:06

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	72.0	71.2	1	1.13		5

Laboratory Control Sample (LCS)

(LCS) R3173318-2 10/25/16 14:06

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	99.9	85.0-115	

Method Blank (MB)

(MB) R3173436-1 10/26/16 12:11

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chromium	U		0.14	1.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3173436-2 10/26/16 12:13 • (LCSD) R3173436-3 10/26/16 12:16

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chromium	100	99.8	100	100	100	80-120			0	20

L867860-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L867860-20 10/26/16 12:19 • (MS) R3173436-6 10/26/16 12:27 • (MSD) R3173436-7 10/26/16 12:29

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium	136	71.3	202	201	96	95	1	75-125			1	20

Method Blank (MB)

(MB) R3173595-1 10/26/16 16:09

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chromium	U		0.14	1.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3173595-2 10/26/16 16:12 • (LCSD) R3173595-3 10/26/16 16:14

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chromium	100	99.9	97.8	100	98	80-120			2	20

L867860-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L867860-21 10/26/16 16:17 • (MS) R3173595-6 10/26/16 16:26 • (MSD) R3173595-7 10/26/16 16:29

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium	140	75.4	208	211	95	97	1	75-125			2	20

Method Blank (MB)

(MB) R3173016-1 10/25/16 08:05

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chromium	U		0.14	1.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3173016-2 10/25/16 08:08 • (LCSD) R3173016-3 10/25/16 08:10

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chromium	100	104	103	104	103	80-120			1	20

L867860-41 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L867860-41 10/25/16 08:13 • (MS) R3173016-6 10/25/16 08:21 • (MSD) R3173016-7 10/25/16 08:23

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium	161	123	286	279	102	97	1	75-125			2	20

Method Blank (MB)

(MB) R3173043-1 10/25/16 09:38

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chromium	U		0.14	1.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3173043-2 10/25/16 09:40 • (LCSD) R3173043-3 10/25/16 09:43

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chromium	100	104	99.9	104	100	80-120			4	20

L867860-61 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L867860-61 10/25/16 09:46 • (MS) R3173043-6 10/25/16 09:53 • (MSD) R3173043-7 10/25/16 09:56

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium	123	147	276	271	104	100	1	75-125			2	20

Method Blank (MB)

(MB) R3173052-1 10/25/16 10:29

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chromium	U		0.14	1.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3173052-2 10/25/16 10:32 • (LCSD) R3173052-3 10/25/16 10:34

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chromium	100	104	104	104	104	80-120			1	20

L867860-90 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L867860-90 10/25/16 10:37 • (MS) R3173052-6 10/25/16 10:45 • (MSD) R3173052-7 10/25/16 10:47

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium	147	68.4	221	224	104	106	1	75-125			1	20

Method Blank (MB)

(MB) R3173056-1 10/25/16 10:29

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chromium	U		0.14	1.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3173056-2 10/25/16 10:31 • (LCSD) R3173056-3 10/25/16 10:34

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chromium	100	108	105	108	105	80-120			3	20

L867860-105 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L867860-105 10/25/16 10:37 • (MS) R3173056-6 10/25/16 10:45 • (MSD) R3173056-7 10/25/16 10:48

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium	124	66.8	204	207	111	114	1	75-125			1	20

Method Blank (MB)

(MB) R3173604-1 10/26/16 15:28

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
Chromium	U		0.14	1.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3173604-2 10/26/16 15:30 • (LCSD) R3173604-3 10/26/16 15:37

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Chromium	100	99.4	103	99	103	80-120			4	20

L867860-131 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L867860-131 10/26/16 15:39 • (MS) R3173604-6 10/26/16 15:47 • (MSD) R3173604-7 10/26/16 15:50

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chromium	114	63.5	179	171	101	94	1	75-125			4	20

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Rec.	Recovery.

Qualifier	Description
J3	The associated batch QC was outside the established quality control range for precision.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.

ACCREDITATIONS & LOCATIONS

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

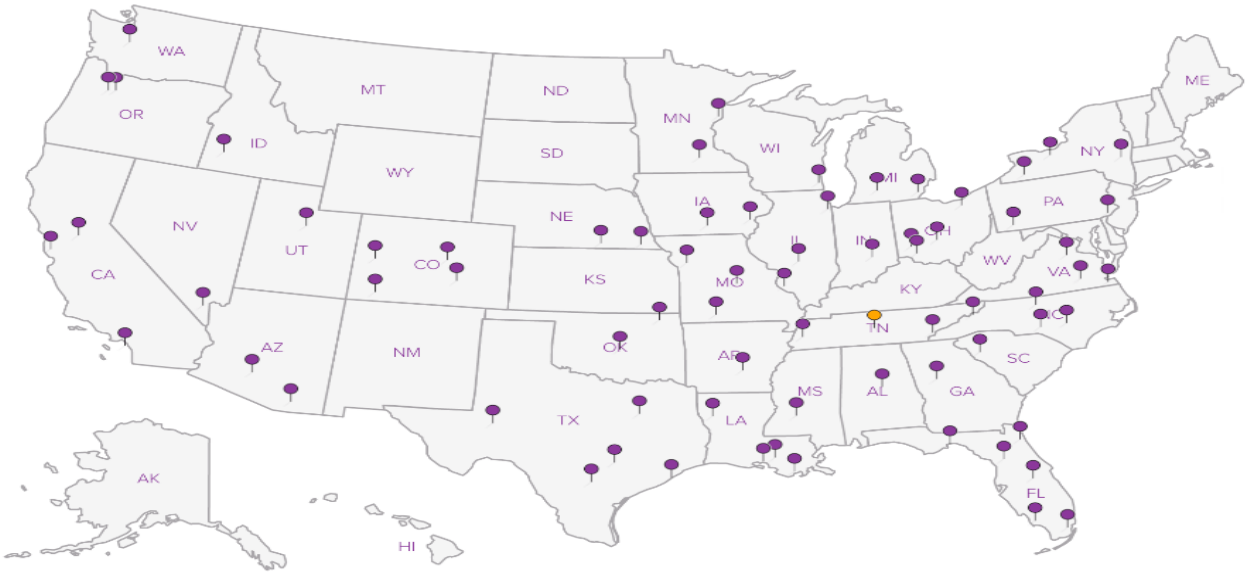
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



10-085 10-084 10-083 10-082 10-081 10-080

F163

Chain of Custody Page 1 of 40

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team

Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS

City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404

Client Project #: Mt. Vernon

ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins

Site/Facility ID#: Mt. Vernon

P.O.#:

Collected by (signature):

Packed on Ice N

Rush? (Lab MUST Be Notified)
____ Same Day. 200%
____ Next Day. 100%
____ Two Day 50%

Date Results Needed:

Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
AD105:0	Grab	SS		10-18-16		1	X			367860 01
:18	Grab	SS				1	X			02
:30	Grab	SS				1	X			03
AH-62:0	Grab	SS				1		X		
:18	Grab	SS				1		X		
:30	Grab	SS				1		X		
AI107:0	Grab	SS				1		X		
:18	Grab	SS				1		X		
:30	Grab	SS				1		X		

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐	Condition: (lab use only)
	10-21-16	1200			JW1 corSI
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb / Bottles Received: 358m	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 9W	pH Checked: / NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon
Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:
Collected by (signature):
Packed on Ice N

Rush? (Lab MUST Be Notified)
____ Same Day. 200%
____ Next Day. 100%
____ Two Day 50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 2 of 40

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
AK-78 ; 0	Grab	SS		10/18/16		1	X			867860-04
↓ ; 18	Grab	SS				1	X			05
↓ ; 30	Grab	SS				1	X			06
AL-72 ; 0	Grab	SS				1		X		
AL-72 ; 18	Grab	SS				1		X		
AP99 ; 0	Grab	SS				1	X			07
↓ ; 18	Grab	SS				1	X			08
↓ ; 30	Grab	SS				1	X			09
AQ-79 ; 0	Grab	SS		↓		1	X			10

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☒ FedEx ☐ Courier ☐ UPS ☐ _____	Condition: (lab use only)
	10-21-16	1200			JW1
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: AMB / Bottles Received: 358 cn	COC52
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 9W	pH Checked: / NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team

Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS

City/Sate Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404

Client Project #: Mt. Vernon

ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins

Site/Facility ID#: Mt. Vernon

P.O.#:

Collected by (signature):

Packed on Ice N

Rush? (Lab MUST Be Notified)
____ Same Day. 200%
____ Next Day. 100%
____ Two Day 50%

Date Results Needed:

Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
AQ-79 : 18	Grab	SS		10-18-16		1	X			367860-11
AQ-79 : 30	Grab	SS				1	X			12
AQ-86 : 0	Grab	SS				1	X			13
↓ : 18	Grab	SS				1	X			14
↓ : 30	Grab	SS				1	X			15
AS117 : 0	Grab	SS				1		X		
↓ : 18	Grab	SS				1		X		
↓ : 30	Grab	SS				1		X		
AU-65 : 0	Grab	SS		↓		1		X		

Chain of Custody Page 3 of 40

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10-21-16	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____

Temp: Amb | Bottles Received: 358

Date: 10-22-16 | Time: 9a

Condition: (lab use only) JW COC SI

pH Checked: | NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team

Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS

City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404

Client Project #: Mt. Vernon

ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins

Site/Facility ID#: Mt. Vernon

P.O.#:

Collected by (signature):

Packed on Ice N (Y)

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day 50%

Date Results Needed:

Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 1 of 1

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
AU-65 : 18	Grab	SS		10-18-16		1		X		867860
AU-65 : 30	Grab	SS				1		X		
AU 104 : 0	Grab	SS				1		X		
↓ : 18	Grab	SS				1		X		
↓ : 30	Grab	SS				1		X		
AV-74 : 0	Grab	SS				1		X		
↓ : 18	Grab	SS				1		X		
↓ : 30	Grab	SS				1		X		
AZ-76 : 0	Grab	SS		↓		1	X			12

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Flow _____ Other _____

Remarks:

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____	Condition: (lab use only)
	10-21-16	1200			SW7
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb / Bottles Received: 359	CCCSI
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 900	pH Checked: / NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/Sate Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:

Collected by (signature):
Packed on Ice N (Y)

Rush? (Lab MUST Be Notified)
____ Same Day. 200%
____ Next Day. 100%
____ Two Day 50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 5 of 40

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
AZ-76 ; 18	Grab	SS		10-18-16		1	X			367360-17
AZ-76 ; 30	Grab	SS		10-18-16		1	X			18
BC-84 ; 0	Grab	SS				1	X			19
↓ ; 18	Grab	SS				1	X			20
↓ ; 30	Grab	SS				1	X			21
BC93 ; 0	Grab	SS				1	X			22
↓ ; 18	Grab	SS				1	X			23
↓ ; 30	Grab	SS				1	X			24
BD-77 ; 0	Grab	SS		↓		1		X		

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐	Condition: (lab use only)
	10.21.16	1200			JW1 cass
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb / Bottles Received: 358	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10.22.16 / Time: 941	pH Checked: / NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/Sate Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:
Collected by (signature):
Packed on Ice N (Y)

Rush? (Lab MUST Be Notified)
____ Same Day. 200%
____ Next Day. 100%
____ Two Day 50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 6 of 40

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
BD-77 : 18	Grab	SS		10-18-16		1		X		86786 -
BD-77 : 30	Grab	SS				1		X		
BF94 : 0	Grab	SS				1		X		
↓ : 18	Grab	SS				1		X		
↓ : 30	Grab	SS				1		X		
BI-90 : 0	Grab	SS				1	X			25
↓ : 18	Grab	SS				1	X			26
↓ : 30	Grab	SS				1	X			27
BK-68 : 0	Grab	SS		↓		1		X		

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐	Condition: (lab use only)
	10-21-16	1200		Temp: Amb / Bottles Received: 358	JW 1 cass
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)		
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 900	pH Checked: / NCF: X

Chain of Custody Page 7 of 40

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:

Collected by (signature):
Packed on Ice: N

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode: portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
BK-68 ; 18	Grab	SS		10-18-16		1		X		26786-
BK-68 ; 30	Grab	SS				1		X		
BM102 ; 0	Grab	SS				1		X		
↓ ; 18	Grab	SS				1		X		
↓ ; 30	Grab	SS				1		X		
BR85 ; 0	Grab	SS				1	X			28
; 18	Grab	SS				1	X			29
; 30	Grab	SS				1	X			30
BR88 ; 0	Grab	SS		↓		1		X		

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____
Flow _____ Other _____

Remarks:

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10-21-16	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____
Temp: Amb
Bottles Received: 358
Date: 10-22-16
Time: 900

Condition: (lab use only) JW1 COC52
pH Checked:
NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:

Collected by (signature):
Packed on Ice N (Y)

Rush? (Lab MUST Be Notified)
___ Same Day.....200%
___ Next Day.....100%
___ Two Day 50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
BR88 ; 18	Grab	SS		10-18-16		1		X		667860-
BR88 ; 30	Grab	SS				1		X		
BX-85 ; 0	Grab	SS				1	X			31
↓ ; 18	Grab	SS				1	X			32
↓ ; 30	Grab	SS				1	X			33
BY-75 ; 0	Grab	SS				1		X		
; 18	Grab	SS				1		X		
; 30	Grab	SS				1		X		
CD-87 ; 0	Grab	SS		↓		1	X			34

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Chain of Custody Page 8 of 40

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10-21-16	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
			Gary Dunn

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____
Temp: AM2
Bottles Received: 358
Date: 10-22-16
Time: 900

Condition: (lab use only) SW7 COC 57
pH Checked:
NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:

Collected by (signature):
Packed on Ice N Y

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 9 of 40

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
CD-87 : 18	Grab	SS		10-18-16		1	X			36736-35
CE 80 : 0	Grab	SS		10-18-16		1		X		
: 16	Grab	SS				1		X		
: 30	Grab	SS				1		X		
CE 84 : 0	Grab	SS				1		X		
: 18	Grab	SS				1		X		
: 30	Grab	SS				1		X		
CE 94 : 0	Grab	SS				1		X		
: 18	Grab	SS				1		X		

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10-21-16	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
			Gary Nam

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____
Temp: Amb
Bottles Received: 358
Date: 10-22-16
Time: 9W

Condition: (lab use only) JWT CAS
pH Checked:
NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
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Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team

Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS

City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404

Client Project #: Mt. Vernon

ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins

Site/Facility ID#: Mt. Vernon

P.O.#:

Collected by (signature):

Packed on Ice N (Y)

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%

Date Results Needed:

Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 10 of 40

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
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CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
CF-94 ; 30	Grab	SS		10-18-16		1		X		36786-
CH-72 ; 0	Grab	SS				1		X		
↓ ; 18	Grab	SS				1		X		
↓ ; 30	Grab	SS				1		X		
CH-78 ; 0	Grab	SS				1		X		
↓ ; 18	Grab	SS				1		X		
↓ ; 30	Grab	SS				1		X		
CJ-82 ; 0	Grab	SS				1	X			X
↓ ; 18	Grab	SS		↓		1	X			37

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐	Condition: (lab use only)
	10-21-16	1200			JW7 COC52
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb / Bottles Received: 338	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 900	pH Checked: / NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
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Alternate billing information:
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Northwest Pipeline

Report to: NWPL Team

Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS

City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404

Client Project #: Mt. Vernon

ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins

Site/Facility ID#: Mt. Vernon

P.O.#:

Collected by (signature):

Packed on Ice N (Y)

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%

Date Results Needed:

Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chromium | HOLD

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Remarks/Contaminant	Sample # (lab only)
CM82 : 0	Grab	SS		10-18-16		1		867[illegible]
: 18	Grab	SS				1		
: 30	Grab	SS				1		
CN-59 : 0	Grab	SS				1		
: 18	Grab	SS				1		
: 30	Grab	SS				1		
CO-67 : 0	Grab	SS				1		
: 18	Grab	SS				1		
CO-73 : 0	Grab	SS				1		

Chain of Custody Page 11 of 40

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
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Phone (615) 758-5858
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FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Flow _____ Other _____

Remarks:

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐	Condition: (lab use only)
	10-21-16	1200			JW1 COC53
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb / Bottles Received: 358	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 900	pH Checked: / NCF:

Portnoy Environmental
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Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:

Collected by (signature):
Packed on Ice N

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day 50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
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Phone (800) 767-5859
FAX (615) 758-5859

Chain of Custody Page 12 of 40

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
CO-73 :18	Grab	SS		10-18-16		1		X		36726-
CO-78 :0	Grab	SS				1	X			38
↓ :18	Grab	SS				1	X			39
↓ :30	Grab	SS				1	X			40
CS88 :0	Grab	SS				1		X		
↓ :18	Grab	SS				1		X		
↓ :30	Grab	SS				1		X		
CU-65 :0	Grab	SS				1		X		
↓ :18	Grab	SS				1		X		

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____
Flow _____ Other _____

Remarks:

	Date:	Time:		
Relinquished by: (Signature)	10/21/16	1200	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: AMB / Bottles Received: 358
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 900 / pH Checked: / NCF: X

Condition: (lab use only) JW7 COCSI

Portnoy Environmental
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Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team

Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS

City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404

Client Project #: Mt. Vernon

ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins

Site/Facility ID#: Mt. Vernon

P.O.#:

Collected by (signature):

Packed on Ice N

Rush? (Lab MUST Be Notified)
____ Same Day. 200%
____ Next Day. 100%
____ Two Day 50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 13 of 40

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
CU-65 : 30	Grab	SS		10-18-16		1		X		467860-
CU-71 : 0	Grab	SS		10-19-16		1		X		
↓ : 18	Grab	SS				1		X		
↓ : 30	Grab	SS				1		X		
CU72 : 0	Grab	SS				1	X			41
↓ : 18	Grab	SS				1	X			42
↓ : 30	Grab	SS				1	X			43
CU-75 : 0	Grab	SS				1	X			44
↓ : 18	Grab	SS		↓		1	X			45

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date: 10/21/16	Time: 1200	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____	Condition:	(lab use only) JW7 LOCSI
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb	Bottles Received: 558	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16	Time: 9W	pH Checked: NCF: X

Portnoy Environmental
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Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:

Collected by (signature):
Packed on Ice N

Rush? (Lab MUST Be Notified)
____ Same Day. 200%
____ Next Day. 100%
____ Two Day 50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 16 of 40

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
CU-75:30	Grab	SS		10/19/16		1	X			46736-41
CY75:0	Grab	SS				1		X		
:18	Grab	SS				1		X		
:30	Grab	SS				1		X		
DE-59:0	Grab	SS				1		X		
:18	Grab	SS				1		X		
:30	Grab	SS				1		X		
DE61:0	Grab	SS				1	X			47
:18	Grab	SS				1	X			48

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

	Date:	Time:		
Relinquished by: (Signature)	10-21-16	1200	Received by: (Signature)	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) Doug Dunn	

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____
Temp: AMB
Bottles Received: 358
Date: 10-22-16
Time: 9W

Condition: (lab use only) SW7 COC52
pH Checked:
NCF: X

Portnoy Environmental 1414 W. Sam Houston Pkwy N. Suite 170 Houston, TX 77043	Alternate billing information: Aaron Galer Northwest Pipeline Report to: NWPL Team Email to: ahopkins@pei-tx.com	Analysis/Container/Preservative	Chain of Custody Page 15 of 40 Prepared by: ENVIRONMENTAL SCIENCE CORP. 12065 Lebanon Road Mt. Juliet, TN 37122 Phone (615) 758-5858 Phone (800) 767-5859 FAX (615) 758-5859

Project Description: Mt. Vernon CS	City/Sate Collected: Mt. Vernon	CoCode portenvtx (lab use only)
Phone: 713-805-2994 FAX: 832-295-6404	Client Project #: Mt. Vernon	ESC Key: PORTNOYENV-WAHG	Template/Prelogin
Collected by: Alan Hopkins	Site/Facility ID#: Mt. Vernon	P.O.#:	Shipped Via:

Collected by (signature): Packed on Ice N (Y)

Rush? (Lab MUST Be Notified)
___ Same Day. 200%
___ Next Day. 100%
___ Two Day 50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
OE61:30	Grab	SS		10-19-16		1	X			36786 49
OE66:0	Grab	SS				1		X		
:18	Grab	SS				1		X		
:30	Grab	SS				1		X		
OH-65:0	Grab	SS				1		X		
OI57:0	Grab	SS				1		X		
↓ :18	Grab	SS				1		X		
↓ :30	Grab	SS				1		X		
OI72:0	Grab	SS		↓		1		X		

*Matrix: **SS** - Soil/Solid **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date: 10-21-16	Time: 1200	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____	Condition: (lab use only) JW7 LASI
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb / Bottles Received: 35	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 900	pH Checked: / NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team

Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS

City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404

Client Project #: Mt. Vernon

ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins

Site/Facility ID#: Mt. Vernon

P.O.#:

Collected by (signature):

Packed on Ice N

Rush? (Lab MUST Be Notified)
___ Same Day.....200%
___ Next Day.....100%
___ Two Day.....50%

Date Results Needed:

Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
DI72 ; 18	Grab	SS		10-19-16		1		X		867860 -
; 30	Grab	SS				1		X		
E-63 ; 0	Grab	SS				1	X			50
; 18	Grab	SS				1	X			51
; 30	Grab	SS				1	X			52
G-57 ; 0	Grab	SS				1		X		
; 18	Grab	SS				1		X		
; 30	Grab	SS				1		X		
G119 ; 0	Grab	SS				1	X			53

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Relinquished by: (Signature) Date: 10-21-16 Time: 1200 Received by: (Signature)

Relinquished by: (Signature) Date: Time: Received by: (Signature)

Relinquished by: (Signature) Date: Time: Received for lab by: (Signature) Date: 10-22-16 Time: 9C

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____

Temp: Amb Bottles Received: 358

Condition: (lab use only) JW7 COC52

pH Checked: NCF: X

Chain of Custody Page 16 of 46

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon
Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:
Collected by (signature):
Packed on Ice: N Y

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 17 of 40

Prepared by:
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Phone (615) 758-5858
Phone (800) 767-5859
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CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
G119 : 18	Grab	SS		10/19/16		1	X			367860-54
: 30	Grab	SS				1	X			55
G134 : 0	Grab	SS				1		X		
↓ : 12	Grab	SS				1		X		
J-41 : 0	Grab	SS				1		X		
: 18	Grab	SS				1		X		
: 30	Grab	SS				1		X		
N-67 : 0	Grab	SS				1	X			56
: 18	Grab	SS		↓		1	X			57

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____
Flow _____ Other _____

Remarks:

Relinquished by: (Signature)	Date: 10/21/16	Time: 1200	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____	Condition: (lab use only) SW7 LOC51
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: AMB / Bottles Received: 358	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 900	pH Checked: / NCF: X

Chain of Custody Page 18 of 40

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:

Collected by (signature):
Packed on Ice N

Rush? (Lab MUST Be Notified)
___ Same Day.....200%
___ Next Day.....100%
___ Two Day.....50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Prepared by:
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CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
0120 : 0	Grab	SS		10-19-16		1		X		867862-
: 18	Grab	SS				1		X		
: 30	Grab	SS				1		X		
5-61 : 0	Grab	SS				1		X		
: 18	Grab	SS				1		X		
: 30	Grab	SS				1		X		
0111 : 0	Grab	SS				1	X			58
: 18	Grab	SS				1	X			59
: 30	Grab	SS				1	X			60

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____
Flow _____ Other _____

Remarks:

	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	10/21/16	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) Jay Wann

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____
Temp: Amb
Bottles Received: 550
Date: 10-22-16
Time: 90
Condition: (lab use only) JW7 cass
pH Checked:
NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team

Email to: ahopkins@pel-tx.com

Project Description: Mt. Vernon CS

City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404

Client Project #: Mt. Vernon

ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins

Site/Facility ID#: Mt. Vernon

P.O.#:

Collected by (signature):

Packed on Ice: N (Y)

Rush? (Lab MUST Be Notified)
____ Same Day. 200%
____ Next Day. 100%
____ Two Day 50%

Date Results Needed:

Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
X-50 : 0	Grab	SS		10/19/16		1		X		46786-
↓ : 18	Grab	SS		↓		1		X		
↓ : 30	Grab	SS		↓		1		X		
X-74 : 0	Grab	SS		↓		1	X			61
↓ : 18	Grab	SS		↓		1	X			62
↓ : 30	Grab	SS		↓		1	X			63
Z114 : 0	Grab	SS		↓		1		X		
↓ : 18	Grab	SS		↓		1		X		
↓ : 24	Grab	SS		↓		1		X		

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Chain of Custody Page 19 of 40

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10-21-16	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
			Amy Wan

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____

Temp:	Bottles Received:	Condition: (lab use only)
Amb	358	JW1 COC1
Date:	Time:	pH Checked: / NCF:
10-22-16	940	/ X

Chain of Custody Page 20 of 40

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:

Collected by (signature):
Packed on Ice N

Rush? (Lab MUST Be Notified)
___ Same Day. 200%
___ Next Day. 100%
___ Two Day 50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
000P-75:0	Grab	SS		10/21/16		1		X		86736-1
000P-75:18	Grab	SS				1		X		
000P-75:30	Grab	SS				1		X		
000P-95:0	Grab	SS				1		X		
↓ -95:18	Grab	SS				1		X		
↓ -95:30	Grab	SS				1		X		
000T-58:0	Grab	SS				1		X		
↓ -58:18	Grab	SS				1		X		
↓ -58:30	Grab	SS		↓		1		X		

*Matrix: **SS** - Soil/Solid **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____
Flow _____ Other _____

Remarks:

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____	Condition: (lab use only)
	10/21	1200			JW7 COCSE
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb / Bottles Received: 358	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 900	pH Checked: / NCF:

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/Sate Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:

Collected by (signature):
Packed on Ice N Y

Rush? (Lab MUST Be Notified)
____ Same Day. 200%
____ Next Day. 100%
____ Two Day 50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
OOOVB5:0	Grab	SS		10/19/16		1		X		37860
↓ -135:18	Grab	SS				1		X		
OOOW10:0	Grab	SS				1		X		
↓ :18	Grab	SS				1		X		
↓ :30	Grab	SS				1		X		
OOA115:0	Grab	SS				1		X		
↓ :18	Grab	SS				1		X		
↓ :30	Grab	SS				1		X		
OOB-87:0	Grab	SS		↓		1		X		

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Chain of Custody Page 21 of 40

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10/21/16	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
			Ray Warn

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____
Temp: Amb
Bottles Received: 358
Date: 10-22-16
Time: 900

Condition: (lab use only) SW7 COC#1
pH Checked:
NCF:

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team

Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS

City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404

Client Project #: Mt. Vernon

ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins

Site/Facility ID#: Mt. Vernon

P.O.#:

Collected by (signature):

Packed on Ice N Y

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%

Date Results Needed:

Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
OOB-87:18	Grab	SS		10/19/16		1		X		167860-
↓ -87:30	Grab	SS				1		X		
OOC-70:0	Grab	SS				1		X		
↓ -70:18	Grab	SS				1		X		
↓ -70:30	Grab	SS				1		X		
OOF-75:0	Grab	SS				1		X		
↓ -75:18	Grab	SS				1	X			64
↓ -75:30	Grab	SS				1	X			65
OOF-94:0	Grab	SS		↓		1	X			66

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Chain of Custody Page 2 of 4

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
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Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10/21/16	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
			Amy Warm

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: Amb | Bottles Received: 158 | Date: 10-21-16 | Time: 900

Condition: (lab use only) SW7 COCS 1

pH Checked: | NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team

Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS

City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404

Client Project #: Mt. Vernon

ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins

Site/Facility ID#: Mt. Vernon

P.O.#:

Collected by (signature): CW

Packed on Ice N

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%

Date Results Needed:

Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
00F-94:18	Grab	SS		10/9/16		1		X		367360
↓ -94:30	Grab	SS				1		X		
00G 130:0	Grab	SS				1		X		
↓ :18	Grab	SS				1		X		
↓ :30	Grab	SS				1		X		
~~00H 130:0~~ 00I 145:0	Grab	SS				1		X		
~~130:18~~ ↓ 145:18	Grab	SS				1		X		
~~130:30~~ ↓ 145:30	Grab	SS				1		X		
00J 15:0	Grab	SS		↓		1		X		

Chain of Custody Page 23 of 30

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
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Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐	Condition: (lab use only)
	10/21/16	1200			JW7
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb / Bottles Received: 358	COC SI
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 900	pH Checked: / NCF:

Chain of Custody Page 24 of 40

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team

Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS

City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404

Client Project #: Mt. Vernon

ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins

Site/Facility ID#: Mt. Vernon

P.O.#:

Collected by (signature):

Packed on Ice N

Rush? (Lab MUST Be Notified)
___ Same Day.....200%
___ Next Day.....100%
___ Two Day.....50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
00J15:18	Grab	SS		10/19/16		1		X		36786-
↓ :30	Grab	SS				1		X		
00J32:0	Grab	SS				1		X		
↓ :18	Grab	SS				1		X		
↓ :30	Grab	SS				1		X		
00J95:0	Grab	SS				1		X		
00J95:18	Grab	SS				1		X		
00J95:30	Grab	SS				1		X		
00K116:0	Grab	SS		↓		1		X		

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐	Condition: (lab use only)
	10/21/16	1200			Jw1 cocs1
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb / Bottles Received: 358	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10.22.16 / Time: 900	pH Checked: / NCF:

Prepared by:

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Mt. Juliet, TN 37122
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FAX (615) 758-5859

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/Sate Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:

Collected by (signature): CW
Packed on Ice N X

Rush? (Lab MUST Be Notified)
___ Same Day.....200%
___ Next Day.....100%
___ Two Day.....50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 25 of 40

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
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Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
0004116:12	Grab	SS		10/19/16		1		X		867860-
0004152:0	Grab	SS				1		X		
↓ :18	Grab	SS				1		X		
↓ :30	Grab	SS				1		X		
0004172:0	Grab	SS				1		X		
↓ :18	Grab	SS				1		X		
↓ :30	Grab	SS				1		X		
0004189:0	Grab	SS				1	X			67
↓ - :18	Grab	SS		↓		1	X			68

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____	Condition: (lab use only)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb / Bottles Received: 358	JW1 cacSI
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) Tony Ward	Date: 10-22-16 / Time: 900	pH Checked: / NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/Sate Collected: Mt. Vernon
Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:
Collected by (signature):
Packed on Ice N Y

Rush? (Lab MUST Be Notified)
___ Same Day. 200%
___ Next Day. 100%
___ Two Day 50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 26 of 40

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
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Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
00N89:30	Grab	SS		10/20/16		1	X			346760-69
00N118:0	Grab	SS				1	X			70
:18	Grab	SS				1	X			71
:30	Grab	SS				1	X			72
CON-55:0	Grab	SS				1		X		
:18	Grab	SS				1		X		
00P125:0	Grab	SS				1	X			73
:18	Grab	SS				1	X			74
:30	Grab	SS				1	X			75

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____
Flow _____ Other _____

Remarks:

Relinquished by: (Signature)	Date: 10/21/16	Time: 1200	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____	Condition: (lab use only) JW1 COC51	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb	Bottles Received: 3 VOs	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16	Time: 9Q	pH Checked: NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team

Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS

City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404

Client Project #: Mt. Vernon

ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins

Site/Facility ID#: Mt. Vernon

P.O.#:

Collected by (signature):

Packed on Ice N

Rush? (Lab MUST Be Notified)
___ Same Day.....200%
___ Next Day.....100%
___ Two Day.....50%

Date Results Needed:

Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
OOP-99:0	Grab	SS		10/19/16		1	X			367860-76
↓ :18	Grab	SS				1	X			77
↓ :30	Grab	SS				1	X			78
OOQ 09:0	Grab	SS				1	X	X		79
↓ :18	Grab	SS				1	X	X		80
OOQ B1:0	Grab	SS				1	X	X		
↓ :18	Grab	SS				1	X	X		
↓ :30	Grab	SS				1	X	X		
OOR-61:0	Grab	SS		↓		1	X			81

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Chain of Custody Page 2 of 40

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: Amb | Bottles Received: 358 | Date: 10-22-16 | Time: 900

Condition: (lab use only) SW7 cass

pH Checked: | NCF: X

Chain of Custody Page 28 of 40

Analysis/Container/Preservative

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon
Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:
Collected by (signature):
Packed on Ice N

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Rush? (Lab MUST Be Notified)
___ Same Day.....200%
___ Next Day.....100%
___ Two Day.....50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
OOR-61:18	Grab	SS		10/19/16		1	X			367860-32
↓-61:30	Grab	SS		↓		1	X			33
OOS-96:0	Grab	SS		10/20/16		1	X			34
↓ :18	Grab	SS				1	X			35
↓ :30	Grab	SS				1	X			36
OOT-43:0	Grab	SS				1		X		
↓ :18	Grab	SS				1		X		
↓ :30	Grab	SS				1		X		
OOT91:0	Grab	SS		↓		1		X		

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____
Flow _____ Other _____

Remarks:

Relinquished by: (Signature)	Date: 10/21/16	Time: 1200	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____	Condition: (lab use only) JW7 cocSS
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb / Bottles Received: 358	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 900	pH Checked: / NCF: Y

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team

Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS

City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404

Client Project #: Mt. Vernon

ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins

Site/Facility ID#: Mt. Vernon

P.O.#:

Collected by (signature):

Packed on Ice N Y

Rush? (Lab MUST Be Notified)
____ Same Day. 200%
____ Next Day. 100%
____ Two Day 50%

Date Results Needed:

Email? __No ✓Yes
FAX? ✓No __Yes

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
ØØT91:18	Grab	SS		10/20/16		1		X		667860-
↓ :30	Grab	SS				1		X		
ØØV28:0	Grab	SS				1		X		
↓ :18	Grab	SS				1		X		
↓ :30	Grab	SS				1		X		
ØØV105:0	Grab	SS				1		X		
↓ :18	Grab	SS				1		X		
↓ :30	Grab	SS				1		X		
ØØW16:0	Grab	SS		↓		1		X		

Analysis/Container/Preservative

Chain of Custody Page 29 of 40

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10/21/16	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
			Jay Dunn

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: Amb | Bottles Received: 350

Date: 10-22-16 | Time: 900

Condition: (lab use only) JW7 COC52

pH Checked: | NCF:

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team

Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS

City/Sate Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404

Client Project #: Mt. Vernon

ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins

Site/Facility ID#: Mt. Vernon

P.O.#:

Collected by (signature):

Packed on Ice N Y

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%

Date Results Needed:

Email? __No ✓Yes

FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 30 of 40

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
00W16:18	Grab	SS		10/20/16		1		X		867860-
↓ :30	Grab	SS				1		X		
00W38:0	Grab	SS				1		X		
:18	Grab	SS				1		X		
↓ :30	Grab	SS				1		X		
00W97:0	Grab	SS				1	X			87
↓ :18	Grab	SS				1	X			88
↓ :30	Grab	SS				1	X			89
00W148:0	Grab	SS		↓		1		X		

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐	Condition: (lab use only)
	10/21/16	1200			JW1 COC53
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb / Bottles Received: 358	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 900	pH Checked: / NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon
Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:
Collected by (signature):
Packed on Ice N Y

Rush? (Lab MUST Be Notified)
___ Same Day.....200%
___ Next Day.....100%
___ Two Day.....50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 31 of 40

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
ØØW148:18	Grab	SS		10/21/16		1		X		667820
↓ :30	Grab	SS				1		X		
ØØY4 :0	Grab	SS				1		X		
↓ :18	Grab	SS				1		X		
↓ :30	Grab	SS				1		X		
ØØZ25:0	Grab	SS				1		X		
:18	Grab	SS				1	X			40
[redacted] ØA133:0	Grab	SS				1	X	X		41
↓ :18	Grab	SS		↓		1		X		

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date: 10/21/16	Time: 1200	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐	Condition: JW1 cocsi	(lab use only)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: AMB	Bottles Received: 358	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16	Time: 900	pH Checked: NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
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Project Description: Mt. Vernon CS

City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404

Client Project #: Mt. Vernon

ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins

Site/Facility ID#: Mt. Vernon

P.O.#:

Collected by (signature):

Packed on Ice N

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%

Date Results Needed:

Email? __No ✓Yes

FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 3 of 4

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
0A 13:30	Grab	SS		10/20/16		1		X		867160
0A 23:0	Grab	SS				1	X			92
↓ :18	Grab	SS				1	X			93
↓ :30	Grab	SS				1	X			94
0A 45:0	Grab	SS				1		X		
↓ :18	Grab	SS				1		X		
↓ :30	Grab	SS				1		X		
0A 55:0	Grab	SS				1		X		
↓ :18	Grab	SS		↓		1		X		

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____	Condition:	(lab use only)
	10/21/16	1200				JW COC53
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb	Bottles Received: 358	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16	Time: 900	pH Checked: NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
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Houston, TX 77043

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Project Description: Mt. Vernon CS

City/Sate Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404

Client Project #: Mt. Vernon

ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins

Site/Facility ID#: Mt. Vernon

P.O.#:

Collected by (signature):

Packed on Ice N Y

Rush? (Lab MUST Be Notified)
____ Same Day. 200%
____ Next Day. 100%
____ Two Day 50%

Date Results Needed:

Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody
Page 33 of 40

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
0A55:30	Grab	SS		10/20/16		1		X		867860
0A78:0	Grab	SS				1		X		
↓ :18	Grab	SS				1		X		
↓ :30	Grab	SS				1		X		
0B67:0	Grab	SS				1		X		
↓ :18	Grab	SS				1		X		
0C34:0	Grab	SS				1	X			95
↓ :18	Grab	SS				1	X			96
↓ :30	Grab	SS		↓		1	X			97

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____	Condition: (lab use only)
	10/21/16	1200			SW7 cocs1
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb	Bottles Received: 358
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16	Time: 900
				pH Checked:	NCF: X

Chain of Custody Page 34 of 40

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team

Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS

City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404

Client Project #: Mt. Vernon

ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins

Site/Facility ID#: Mt. Vernon

P.O.#:

Collected by (signature):

Packed on Ice N (Y)

Rush? (Lab MUST Be Notified)
___ Same Day.....200%
___ Next Day.....100%
___ Two Day.....50%

Date Results Needed:

Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
ØC85:0	Grab	SS		10/20/16		1	X			367860-98
↓ :18	Grab	SS				1	X			99
ØC-99:0	Grab	SS				1	X			100
↓ :18	Grab	SS				1	X			101
↓ :30	Grab	SS				1	X			102
ØE42:0	Grab	SS				1	X			103
↓ :18	Grab	SS				1	X			104
↓ :30	Grab	SS				1	X			105
ØF11:0	Grab	SS		↓		1	X			106

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10/21/16	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
			Gary Dan

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: Amb | Bottles Received: 358

Date: 10-22-16 | Time: 9 AM

Condition: (lab use only) JW1 LOCSI

pH Checked: | NCF: X

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team

Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS

City/Sate Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404

Client Project #: Mt. Vernon

ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins

Site/Facility ID#: Mt. Vernon

P.O.#:

Collected by (signature):

Packed on Ice N Y

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%

Date Results Needed:

Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 35 of 40

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
ØF11:18	Grab	SS		10/20/16		1	X			367360-107
↓ :30	Grab	SS				1	X			108
ØF28:0	Grab	SS				1	X			109
↓ :18	Grab	SS				1	X			110
↓ :30	Grab	SS				1	X			111
ØF50:0	Grab	SS				1	X			112
↓ :18	Grab	SS				1	X			113
↓ :30	Grab	SS				1	X			114
ØF59:0	Grab	SS		↓		1	X			115

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____	Condition: (lab use only)
	10/21/16	1200			JW7 COOL
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: AMB / Bottles Received: 358	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 900	pH Checked: / NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team

Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS | City/Sate Collected: Mt. Vernon

Phone: 713-805-2994 FAX: 832-295-6404 | Client Project #: Mt. Vernon | ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins | Site/Facility ID#: Mt. Vernon | P.O.#:

Collected by (signature): Packed on Ice N

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative: Chromium, HOLD

Chain of Custody Page 36 of 46

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
OF59:18	Grab	SS		10/20/16		1	X			367860-116
130	Grab	SS				1	X			117
OF74:0	Grab	SS				1	X			118
74:18	Grab	SS				1	X			119
:30	Grab	SS				1	X			120
OH-45:0	Grab	SS		10/18/16		1		X		
:18	Grab	SS				1		X		
:30	Grab	SS				1		X		
OJ-52:0	Grab	SS				1	X			121

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____	Condition: (lab use only)
	10/21/16	1200			JW1 COC52
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb / Bottles Received: 358	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 900	pH Checked: / NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:

Collected by (signature):
Packed on Ice N

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 37 of 40

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
ØJ-52 :18	Grab	SS		10/18/16		1	X			367360-11
↓ :30	Grab	SS				1	X			123
ØM128 :0	Grab	SS				1	X			124
↓ :18	Grab	SS				1	X			125
↓ :30	Grab	SS				1	X			126
ØM134 :0	Grab	SS				1		X		
↓ :18	Grab	SS				1		X		
↓ :30	Grab	SS				1		X		
Ø0145 :0	Grab	SS		↓		1		X		

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date: 10/21/16	Time: 1200	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐	Condition: (lab use only) JW1 COC52
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb / Bottles Received: 358	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 900	pH Checked: / NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team

Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS

City/Sate Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404

Client Project #: Mt. Vernon

ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins

Site/Facility ID#: Mt. Vernon

P.O.#:

Collected by (signature):

Packed on Ice N

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%

Date Results Needed:

Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 38 of 40

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CcCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
00145:18	Grab	SS		10/18/16		1		X		86786-
↓ :30	Grab	SS				1		X		
05-47:0	Grab	SS				1		X		
:18	Grab	SS				1		✓		
↓ :30	Grab	SS				1		X		
05-58:0	Grab	SS				1	X			127
:18	Grab	SS				1	X			128
↓ :30	Grab	SS				1	X			129
0W-33:0	Grab	SS		↓		1		X		

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐	Condition: (lab use only)
	10/21/16	1200			JW cocs2
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb / Bottles Received: 358	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 900	pH Checked: / NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team

Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS | City/State Collected: Mt. Vernon

Phone: 713-805-2994 FAX: 832-295-6404 | Client Project #: Mt. Vernon | ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins | Site/Facility ID#: Mt. Vernon | P.O.#:

Collected by (signature): Packed on Ice N Y

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
ØW-33:18	Grab	SS		10/18/16		1		X		167860-
↓ :30	Grab	SS				1		X		
ØX-54:0	Grab	SS				1		X		
↓ :18	Grab	SS				1		X		
↓ :30	Grab	SS				1		X		
ØZ121:0	Grab	SS				1		X		
↓ :18	Grab	SS				1		X		
↓ :30	Grab	SS				1		X		
AA-70:0	Grab	SS		↓		1		X		

Chain of Custody Page 34 of 40

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date: 10/21/16	Time: 1202	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐	Condition: (lab use only) JW1 cool
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb / Bottles Received: 358	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 0a	pH Checked: / NCF:

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team

Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS

City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404

Client Project #: Mt. Vernon

ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins

Site/Facility ID#: Mt. Vernon

P.O.#:

Collected by (signature):

Packed on Ice N Y

Rush? (Lab MUST Be Notified)
___ Same Day.....200%
___ Next Day.....100%
___ Two Day.....50%

Date Results Needed:

Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 4 of 4

Prepared by:

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CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
AA-70:10	Grab	SS		10/18/16		1		X		86786-
↓ :30	Grab	SS				1		X		
AC-81:0	Grab	SS				1	X			130
:18	Grab	SS				1	X			131
:30	Grab	SS				1	X	X		132
AC124:0	Grab	SS				1		X		
↓ :18	Grab	SS				1				
	Grab	SS				1				
	Grab	SS				1				

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____	Condition: (lab use only)
	10/21/16	1200			JW1
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb	Bottles Received: 358
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16	Time: 900
				pH Checked:	NCF: X

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

Cooler Receipt Form

Client:	PORTENTY	SDG#	86786
Cooler Received/Opened On: 10/22/16	Temperature Upon Receipt:		AMB °c
Received By: Michael Witherspoon			
Signature: MW			

Receipt Check List	Yes	No	N/A
Were custody seals on outside of cooler and intact?	✓		
Were custody papers properly filled out?		✓	
Did all bottles arrive in good condition?	✓		
Were correct bottles used for the analyses requested?	✓		
Was sufficient amount of sample sent in each bottle?	✓		
Were all applicable sample containers correctly preserved and checked for preservation? (Any not in accepted range noted on COC)			✓
If applicable, was an observable VOA headspace present?			✓
Non Conformance Generated. (If yes see attached NCF)	X		

Matt Shacklock

ESC Lab Sciences
Non-Conformance Form

Login #L867860	Client: PORTENVTX	Date:10/22	Evaluated by:Greg

Non-Conformance (check applicable items)

	Sample Integrity		Chain of Custody Clarification		
	Parameter(s) past holding time	x	Login Clarification Needed		**If Broken Container:**
	Improper temperature		Chain of custody is incomplete		Insufficient packing material around container
	Improper container type		Please specify Metals requested.		Insufficient packing material inside cooler
	Improper preservation		Please specify TCLP requested.		Improper handling by carrier (FedEx / UPS / Courie
	Insufficient sample volume.		Received additional samples not listed on coc.		Sample was frozen
	Sample is biphasic.		Sample ids on containers do not match ids on coc		Container lid not intact
	Vials received with headspace.		Trip Blank not received.		**If no Chain of Custody:**
	Broken container		Client did not "X" analysis.		Received by:
	Broken container:		Chain of Custody is missing		Date/Time:
	Sufficient sample remains				Temp./Cont. Rec./pH:
					Carrier:
					Tracking#

Login Comments:

1. **Received BP:82:0 and BP:82:18 not on COC**
2. **Received 00Q:108:0 and 00Q:108:12 instead of 00Q:109:0 and 00Q:109:12**

Client informed by:		Call		Email		Voice Mail		Date:	Time:
TSR Initials:	Client Contact:								

Login Instructions: . Hold BP-82 samples
2. SHould be 00Q109:0 and 12. RUN

Thanks

Alan

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ANALYTICAL REPORT

October 26, 2016

Portnoy Environmental

Sample Delivery Group:	L867869
Samples Received:	10/22/2016
Project Number:	MT. VERNON
Description:	Mt. Vernon CS
Site:	BACKGROUND
Report To:	NWPL Team 1414 W. Sam Houston Pkwy. N., Suite 170 Houston, TX 77043

Entire Report Reviewed By:

Tom Mellette
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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MV-BACK-1 L867869-01 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920622	1	10/25/16 17:06	10/25/16 20:44	ST
Total Solids by Method 2540 G-2011	WG920529	1	10/25/16 13:58	10/25/16 14:06	KDW

MV-BACK-2 L867869-02 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920622	1	10/25/16 17:06	10/25/16 20:47	ST
Total Solids by Method 2540 G-2011	WG920529	1	10/25/16 13:58	10/25/16 14:06	KDW

MV-BACK-3 L867869-03 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920622	1	10/25/16 17:06	10/25/16 20:56	ST
Total Solids by Method 2540 G-2011	WG920529	1	10/25/16 13:58	10/25/16 14:06	KDW

MV-BACK-4 L867869-04 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920622	1	10/25/16 17:06	10/25/16 20:59	ST
Total Solids by Method 2540 G-2011	WG920529	1	10/25/16 13:58	10/25/16 14:06	KDW

MV-BACK-5 L867869-05 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920622	1	10/25/16 17:06	10/25/16 21:02	ST
Total Solids by Method 2540 G-2011	WG920529	1	10/25/16 13:58	10/25/16 14:06	KDW

MV-BACK-6 L867869-06 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920622	1	10/25/16 17:06	10/25/16 21:05	ST
Total Solids by Method 2540 G-2011	WG920529	1	10/25/16 13:58	10/25/16 14:06	KDW

MV-BACK-7 L867869-07 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920622	1	10/25/16 17:06	10/25/16 21:08	ST
Total Solids by Method 2540 G-2011	WG920529	1	10/25/16 13:58	10/25/16 14:06	KDW

MV-BACK-8 L867869-08 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920622	1	10/25/16 17:06	10/25/16 21:11	ST
Total Solids by Method 2540 G-2011	WG920529	1	10/25/16 13:58	10/25/16 14:06	KDW

MV-BACK-9 L867869-09 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920622	1	10/25/16 17:06	10/25/16 21:14	ST
Total Solids by Method 2540 G-2011	WG920529	1	10/25/16 13:58	10/25/16 14:06	KDW

MV-BACK-10 L867869-10 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920622	1	10/25/16 17:06	10/25/16 21:17	ST
Total Solids by Method 2540 G-2011	WG920530	1	10/25/16 12:49	10/25/16 13:02	MEL

MV-BACK-11 L867869-11 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920622	1	10/25/16 17:06	10/25/16 21:21	ST
Total Solids by Method 2540 G-2011	WG920535	1	10/25/16 13:46	10/25/16 13:56	KDW

MV-BACK-12 L867869-12 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920622	1	10/25/16 17:06	10/25/16 21:24	ST
Total Solids by Method 2540 G-2011	WG920535	1	10/25/16 13:46	10/25/16 13:56	KDW

MV-BACK-13 L867869-13 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920622	1	10/25/16 17:06	10/25/16 21:32	ST
Total Solids by Method 2540 G-2011	WG920535	1	10/25/16 13:46	10/25/16 13:56	KDW

MV-BACK-14 L867869-14 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

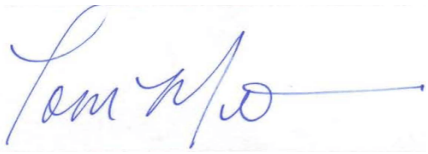
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920622	1	10/25/16 17:06	10/25/16 21:35	ST
Total Solids by Method 2540 G-2011	WG920535	1	10/25/16 13:46	10/25/16 13:56	KDW

MV-BACK-15 L867869-15 Solid

Collected by: Alan Hopkins
Collected date/time: 10/20/16 00:00
Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG920622	1	10/25/16 17:06	10/25/16 21:38	ST
Total Solids by Method 2540 G-2011	WG920535	1	10/25/16 13:46	10/25/16 13:56	KDW

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Tom Mellette
Technical Service Representative

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	58.1		1	10/25/2016 14:06	WG920529

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	84.9		1.72	1	10/25/2016 20:44	WG920622

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	73.1		1	10/25/2016 14:06	WG920529

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	51.4		1.37	1	10/25/2016 20:47	WG920622

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	43.8		1	10/25/2016 14:06	WG920529

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	26.8		2.28	1	10/25/2016 20:56	WG920622

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	59.2		1	10/25/2016 14:06	WG920529

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	58.4		1.69	1	10/25/2016 20:59	WG920622

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.3		1	10/25/2016 14:06	WG920529

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	46.0		1.16	1	10/25/2016 21:02	WG920622

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.2		1	10/25/2016 14:06	WG920529

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	54.3		1.28	1	10/25/2016 21:05	WG920622

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.0		1	10/25/2016 14:06	WG920529

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	40.9		1.11	1	10/25/2016 21:08	WG920622

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	72.0		1	10/25/2016 14:06	WG920529

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	96.4		1.39	1	10/25/2016 21:11	WG920622

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.5		1	10/25/2016 14:06	WG920529

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	44.8		1.29	1	10/25/2016 21:14	WG920622

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	70.5		1	10/25/2016 13:02	WG920530

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	111		1.42	1	10/25/2016 21:17	WG920622

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.9		1	10/25/2016 13:56	WG920535

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	352		1.16	1	10/25/2016 21:21	WG920622

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.5		1	10/25/2016 13:56	WG920535

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	77.1		1.08	1	10/25/2016 21:24	WG920622

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.7		1	10/25/2016 13:56	WG920535

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	182		1.10	1	10/25/2016 21:32	WG920622

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.0		1	10/25/2016 13:56	WG920535

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	216		1.21	1	10/25/2016 21:35	WG920622

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.4		1	10/25/2016 13:56	WG920535

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	285		1.16	1	10/25/2016 21:38	WG920622

Method Blank (MB)

(MB) R3173318-1 10/25/16 14:06

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00110			

L867869-08 Original Sample (OS) • Duplicate (DUP)

(OS) L867869-08 10/25/16 14:06 • (DUP) R3173318-3 10/25/16 14:06

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	72.0	71.2	1	1.13		5

Laboratory Control Sample (LCS)

(LCS) R3173318-2 10/25/16 14:06

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	99.9	85.0-115	

Method Blank (MB)

(MB) R3173312-1 10/25/16 13:02

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000500			

L867869-10 Original Sample (OS) • Duplicate (DUP)

(OS) L867869-10 10/25/16 13:02 • (DUP) R3173312-3 10/25/16 13:02

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	70.5	73.8	1	4.56		5

Laboratory Control Sample (LCS)

(LCS) R3173312-2 10/25/16 13:02

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3173316-1 10/25/16 13:56

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00140			

L867869-15 Original Sample (OS) • Duplicate (DUP)

(OS) L867869-15 10/25/16 13:56 • (DUP) R3173316-3 10/25/16 13:56

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	86.4	85.4	1	1.14		5

Laboratory Control Sample (LCS)

(LCS) R3173316-2 10/25/16 13:56

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	99.9	85.0-115	

Method Blank (MB)

(MB) R3173241-1 10/25/16 20:22

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
Chromium	U		0.14	1.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3173241-2 10/25/16 20:24 • (LCSD) R3173241-3 10/25/16 20:27

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Chromium	100	97.1	97.0	97	97	80-120			0	20

L867996-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L867996-03 10/25/16 20:30 • (MS) R3173241-6 10/25/16 20:39 • (MSD) R3173241-7 10/25/16 20:42

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chromium	100	25.1	108	123	83	98	1	75-125			13	20

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Rec.	Recovery.

Qualifier	Description
	The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

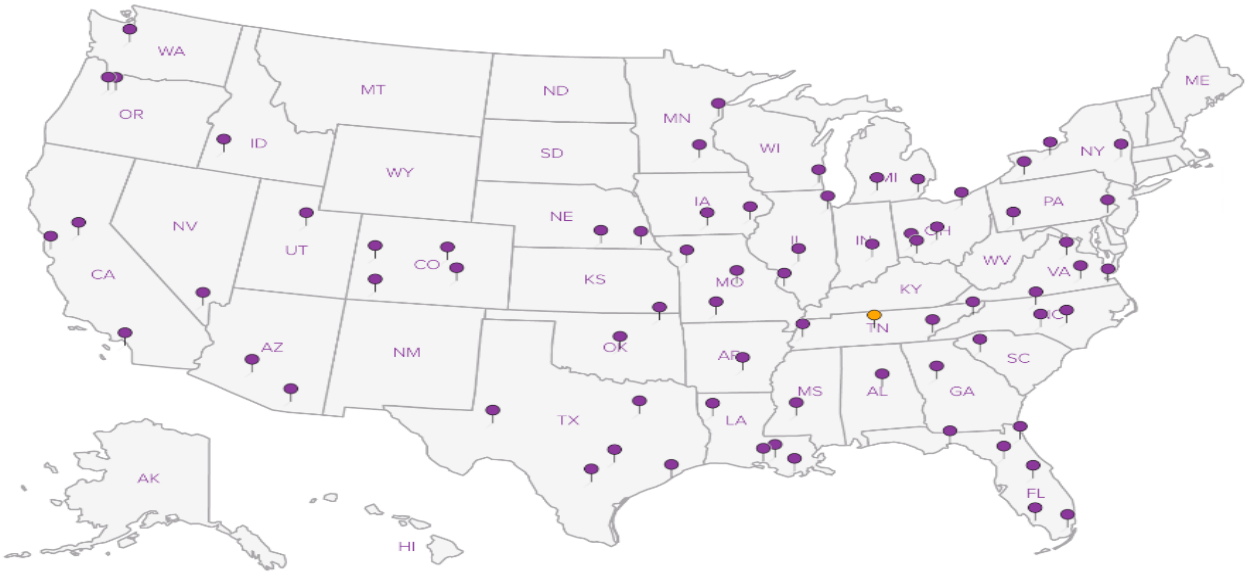
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



F161

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404

Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins
Site/Facility ID#: BACKGROUND
P.O.#:

Collected by (signature):
Packed on Ice N (Y)

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
MV-BACK-1	Grab	SS		10-20-16		1	X			L867869-01
-2	Grab	SS				1	X			02
-3	Grab	SS				1	X			03
-4	Grab	SS				1	X			04
-5	Grab	SS				1	X			05
-6	Grab	SS				1	X			06
-7	Grab	SS				1	X			07
-8	Grab	SS				1	X			08
-9	Grab	SS				1	X			09

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Chain of Custody Page 1 of 2

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10-21-16	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐

Temp:	Bottles Received:	Condition: (lab use only)
AMB	15=207	
Date: 10-22-16	Time: 9:00	pH Checked: / NCF:

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404

Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins
Site/Facility ID#: [redacted] BACKGROUND
P.O.#:

Collected by (signature):
Packed on Ice: N

Rush? (Lab MUST Be Notified)
___ Same Day.....200%
___ Next Day.....100%
___ Two Day.....50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
MV-BACK-10	Grab	SS		10-20-16		1	X			L967869-10
-11	Grab	SS				1	X			11
-12	Grab	SS				1	X			12
-13	Grab	SS				1	X			13
-14	Grab	SS				1	X			14
-15	Grab	SS				1	X			15
	Grab	SS				1				
	Grab	SS				1				
	Grab	SS				1				

Chain of Custody Page 2 of 2

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks:

pH ____ Temp ____
Flow ____ Other ____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10-21-16	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ ____
Temp: AM3
Bottles Received: 15=202
Date: 10-22-16
Time: 9:00
Condition: (lab use only)
pH Checked:
NCF:

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

Cooler Receipt Form

Client:	PORTENVTX	SDG#	L867869
Cooler Received/Opened On: 10/22/16		Temperature Upon Receipt:	AMB °c
Received By: Michael Witherspoon			
Signature:			

Receipt Check List	Yes	No	N/A
Were custody seals on outside of cooler and intact?			✓
Were custody papers properly filled out?	✓		
Did all bottles arrive in good condition?	✓		
Were correct bottles used for the analyses requested?	✓		
Was sufficient amount of sample sent in each bottle?	✓		
Were all applicable sample containers correctly preserved and checked for preservation? (Any not in accepted range noted on COC)			✓
If applicable, was an observable VOA headspace present?			—
Non Conformance Generated. (If yes see attached NCF)			

ANALYTICAL REPORT

October 28, 2016

Portnoy Environmental

Sample Delivery Group:	L867872
Samples Received:	10/22/2016
Project Number:	MT. VERNON
Description:	Mt. Vernon CS
Site:	REDO
Report To:	NWPL Team 1414 W. Sam Houston Pkwy. N., Suite 170 Houston, TX 77043

Entire Report Reviewed By:

Tom Mellette
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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MV-AI-85:0 L867872-05 11

MV-AU28:18 L867872-06 12

MV-AU31:0 L867872-07 13

MV-AZ26:18 L867872-08 14

MV-CE-92:12 L867872-09 15

MV-CG-89:0 L867872-10 16

MV-CO-88:18 L867872-11 17

MV-CO-91:18 L867872-12 18

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MV-0G-70:18 L867872-01 Solid

Collected by: Alan Hopkins
Collected date/time: 10/20/16 00:00
Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG921030	1	10/27/16 09:22	10/28/16 02:01	LTB
Total Solids by Method 2540 G-2011	WG920535	1	10/25/16 13:46	10/25/16 13:56	KDW

MV-0H83:18 L867872-02 Solid

Collected by: Alan Hopkins
Collected date/time: 10/20/16 00:00
Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG921030	1	10/27/16 09:22	10/28/16 02:16	LTB
Total Solids by Method 2540 G-2011	WG920535	1	10/25/16 13:46	10/25/16 13:56	KDW

MV-0Q83:0 L867872-03 Solid

Collected by: Alan Hopkins
Collected date/time: 10/20/16 00:00
Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG921030	1	10/27/16 09:22	10/28/16 02:19	LTB
Total Solids by Method 2540 G-2011	WG920535	1	10/25/16 13:46	10/25/16 13:56	KDW

MV-AF25:18 L867872-04 Solid

Collected by: Alan Hopkins
Collected date/time: 10/20/16 00:00
Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG921030	1	10/27/16 09:22	10/28/16 02:27	LTB
Total Solids by Method 2540 G-2011	WG920535	1	10/25/16 13:46	10/25/16 13:56	KDW

MV-AI-85:0 L867872-05 Solid

Collected by: Alan Hopkins
Collected date/time: 10/20/16 00:00
Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG921030	1	10/27/16 09:22	10/28/16 02:30	LTB
Total Solids by Method 2540 G-2011	WG920535	1	10/25/16 13:46	10/25/16 13:56	KDW

MV-AU28:18 L867872-06 Solid

Collected by: Alan Hopkins
Collected date/time: 10/20/16 00:00
Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG921030	1	10/27/16 09:22	10/28/16 02:33	LTB
Total Solids by Method 2540 G-2011	WG920536	1	10/25/16 13:31	10/25/16 13:42	KDW

MV-AU31:0 L867872-07 Solid

Collected by: Alan Hopkins
Collected date/time: 10/20/16 00:00
Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG921030	1	10/27/16 09:22	10/28/16 02:36	LTB
Total Solids by Method 2540 G-2011	WG920536	1	10/25/16 13:31	10/25/16 13:42	KDW

MV-AZ26:18 L867872-08 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG921030	1	10/27/16 09:22	10/28/16 02:39	LTB
Total Solids by Method 2540 G-2011	WG920536	1	10/25/16 13:31	10/25/16 13:42	KDW

MV-CE-92:12 L867872-09 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG921030	1	10/27/16 09:22	10/28/16 02:42	LTB
Total Solids by Method 2540 G-2011	WG920536	1	10/25/16 13:31	10/25/16 13:42	KDW

MV-CG-89:0 L867872-10 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG921030	1	10/27/16 09:22	10/28/16 02:45	LTB
Total Solids by Method 2540 G-2011	WG920536	1	10/25/16 13:31	10/25/16 13:42	KDW

MV-CO-88:18 L867872-11 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG921030	1	10/27/16 09:22	10/28/16 02:48	LTB
Total Solids by Method 2540 G-2011	WG920536	1	10/25/16 13:31	10/25/16 13:42	KDW

MV-CO-91:18 L867872-12 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG921030	1	10/27/16 09:22	10/28/16 02:51	LTB
Total Solids by Method 2540 G-2011	WG920536	1	10/25/16 13:31	10/25/16 13:42	KDW

MV-CP-80:0 L867872-13 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG921030	1	10/27/16 09:22	10/28/16 02:54	LTB
Total Solids by Method 2540 G-2011	WG920536	1	10/25/16 13:31	10/25/16 13:42	KDW

MV-CP-80:12 L867872-14 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG921030	1	10/27/16 09:22	10/28/16 03:03	LTB
Total Solids by Method 2540 G-2011	WG920536	1	10/25/16 13:31	10/25/16 13:42	KDW

MV-CQ-89:18 L867872-15 Solid

Collected by: Alan Hopkins
Collected date/time: 10/20/16 00:00
Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG921030	1	10/27/16 09:22	10/28/16 03:06	LTB
Total Solids by Method 2540 G-2011	WG920536	1	10/25/16 13:31	10/25/16 13:42	KDW

MV-CQ-92:18 L867872-16 Solid

Collected by: Alan Hopkins
Collected date/time: 10/20/16 00:00
Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG921030	1	10/27/16 09:22	10/28/16 03:09	LTB
Total Solids by Method 2540 G-2011	WG920537	1	10/25/16 16:14	10/25/16 16:27	MEL

MV-CS69:18 L867872-17 Solid

Collected by: Alan Hopkins
Collected date/time: 10/20/16 00:00
Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG921030	1	10/27/16 09:22	10/28/16 03:11	LTB
Total Solids by Method 2540 G-2011	WG920537	1	10/25/16 16:14	10/25/16 16:27	MEL

MV-CT-78:12 L867872-18 Solid

Collected by: Alan Hopkins
Collected date/time: 10/20/16 00:00
Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG921030	.7692308	10/27/16 09:22	10/28/16 03:14	LTB
Total Solids by Method 2540 G-2011	WG920537	1	10/25/16 16:14	10/25/16 16:27	MEL

MV-CW67:0 L867872-19 Solid

Collected by: Alan Hopkins
Collected date/time: 10/20/16 00:00
Received date/time: 10/22/16 09:00

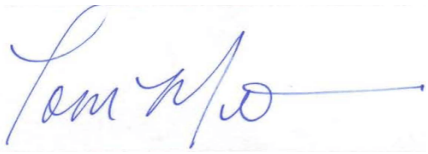
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG921030	1	10/27/16 09:22	10/28/16 03:17	LTB
Total Solids by Method 2540 G-2011	WG920537	1	10/25/16 16:14	10/25/16 16:27	MEL

MV-J-80:18 L867872-20 Solid

Collected by: Alan Hopkins
Collected date/time: 10/20/16 00:00
Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG921030	1	10/27/16 09:22	10/28/16 03:20	LTB
Total Solids by Method 2540 G-2011	WG920537	1	10/25/16 16:14	10/25/16 16:27	MEL

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Tom Mellette
Technical Service Representative

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.0		1	10/25/2016 13:56	WG920535

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	78.8		1.30	1	10/28/2016 02:01	WG921030

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.4		1	10/25/2016 13:56	WG920535

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	72.8		1.26	1	10/28/2016 02:16	WG921030

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.5		1	10/25/2016 13:56	WG920535

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	48.8		1.05	1	10/28/2016 02:19	WG921030

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.9		1	10/25/2016 13:56	WG920535

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	101		1.28	1	10/28/2016 02:27	WG921030

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.7		1	10/25/2016 13:56	WG920535

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	96.7		1.10	1	10/28/2016 02:30	WG921030

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.8		1	10/25/2016 13:42	WG920536

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	312		1.13	1	10/28/2016 02:33	WG921030

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.6		1	10/25/2016 13:42	WG920536

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	78.5		1.09	1	10/28/2016 02:36	WG921030

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.2		1	10/25/2016 13:42	WG920536

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	99.6		1.12	1	10/28/2016 02:39	WG921030

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.4		1	10/25/2016 13:42	WG920536

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	127		1.33	1	10/28/2016 02:42	WG921030

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	59.5		1	10/25/2016 13:42	WG920536

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	262		1.68	1	10/28/2016 02:45	WG921030

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.3		1	10/25/2016 13:42	WG920536

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	329		1.15	1	10/28/2016 02:48	WG921030

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.7		1	10/25/2016 13:42	WG920536

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	118		1.24	1	10/28/2016 02:51	WG921030

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.8		1	10/25/2016 13:42	WG920536

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	239		1.25	1	10/28/2016 02:54	WG921030

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	74.2		1	10/25/2016 13:42	WG920536

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	274		1.35	1	10/28/2016 03:03	WG921030

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.7		1	10/25/2016 13:42	WG920536

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	103		1.13	1	10/28/2016 03:06	WG921030

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.2		1	10/25/2016 16:27	WG920537

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	743		1.11	1	10/28/2016 03:09	WG921030

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	59.5		1	10/25/2016 16:27	WG920537

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	97.1		1.68	1	10/28/2016 03:11	WG921030

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.4		1	10/25/2016 16:27	WG920537

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	214		1.02	.7692308	10/28/2016 03:14	WG921030

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	67.1		1	10/25/2016 16:27	WG920537

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	129		1.49	1	10/28/2016 03:17	WG921030

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.5		1	10/25/2016 16:27	WG920537

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	89.1		1.31	1	10/28/2016 03:20	WG921030

Method Blank (MB)

(MB) R3173316-1 10/25/16 13:56

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00140			

L867869-15 Original Sample (OS) • Duplicate (DUP)

(OS) L867869-15 10/25/16 13:56 • (DUP) R3173316-3 10/25/16 13:56

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	86.4	85.4	1	1.14		5

Laboratory Control Sample (LCS)

(LCS) R3173316-2 10/25/16 13:56

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	99.9	85.0-115	

Method Blank (MB)

(MB) R3173309-1 10/25/16 13:42

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000400			

L867872-09 Original Sample (OS) • Duplicate (DUP)

(OS) L867872-09 10/25/16 13:42 • (DUP) R3173309-3 10/25/16 13:42

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	75.4	78.9	1	4.57		5

Laboratory Control Sample (LCS)

(LCS) R3173309-2 10/25/16 13:42

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3173268-1 10/25/16 16:27

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000800			

L867873-03 Original Sample (OS) • Duplicate (DUP)

(OS) L867873-03 10/25/16 16:27 • (DUP) R3173268-3 10/25/16 16:27

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	74.5	75.4	1	1.21		5

Laboratory Control Sample (LCS)

(LCS) R3173268-2 10/25/16 16:27

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3174000-1 10/28/16 01:53

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
Chromium	U		0.14	1.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3174000-2 10/28/16 01:56 • (LCSD) R3174000-3 10/28/16 01:58

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Chromium	100	97.5	106	98	106	80-120			8	20

L867872-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L867872-01 10/28/16 02:01 • (MS) R3174000-6 10/28/16 02:10 • (MSD) R3174000-7 10/28/16 02:13

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chromium	130	78.8	219	220	108	109	1	75-125			1	20

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Rec.	Recovery.

Qualifier	Description
	The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

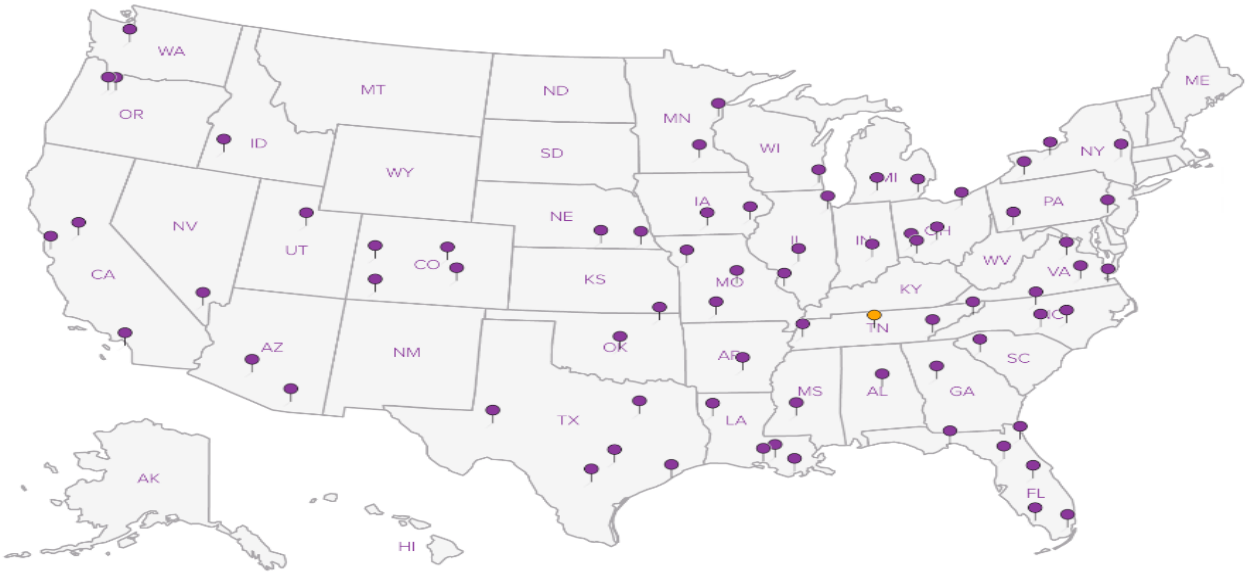
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



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Chain of Custody Page 1 of 3

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins
Site/Facility ID#: REDO
P.O.#:

Collected by (signature):
Packed on Ice N

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
MV-ØG-70:18	Grab	SS		10-2016		1	X			L867872-01
MV-ØH83:18	Grab	SS				1	X			02
MV-ØQ83:0	Grab	SS				1	X			03
MV-AF25:18	Grab	SS				1	X			04
MV-AI-85:0	Grab	SS				1	X			05
MV-AU28:18	Grab	SS				1	X			06
MV-AU31:0	Grab	SS				1	X			07
MV-AZ26:18	Grab	SS				1	X			08
MV-CE-92:12	Grab	SS				1	X			09

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____
Flow _____ Other _____

Remarks:

	Date:	Time:		Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐		Condition: (lab use only)	
Relinquished by: (Signature)	10-21-16	1200	Received by: (Signature)				
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: AM3	Bottles Received: 20=20Z		
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16	Time: 9:00	pH Checked:	NCF:

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/Sate Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins
Site/Facility ID#: Mt. REDO
P.O.#:

Collected by (signature):
Packed on Ice N (Y)

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 2 of 3

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
MV-CG-89:0	Grab	SS		10-2016		1	X			L867872-10
MV-CO-88:18	Grab	SS				1	X			11
MV-CO-91:18	Grab	SS				1	X			12
MV-CP-80:0	Grab	SS				1	X			13
MV-CP-80:12	Grab	SS				1	X			14
MV-CQ-89:18	Grab	SS				1	X			15
MV-CQ-92:18	Grab	SS				1	X			16
MV-CS69:18	Grab	SS				1	X			17
MV-CT-78:12	Grab	SS				1	X			18

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

	Date:	Time:		
Relinquished by: (Signature)	10-21-16	1200	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: AM B / Bottles Received: 20=20 / Condition: (lab use only)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 9:00 / pH Checked: / NCF:

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon
Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: REPU
P.O.#:
Collected by (signature):
Packed on Ice N

Rush? (Lab MUST Be Notified)
____ Same Day. 200%
____ Next Day.. . . . . 100%
____ Two Day 50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 3 of 3

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
MV-CW67:0	Grab	SS		10-20-16		1	X			L867872-19
MV-J-80:18	Grab	SS		10-20-16		1	X			20
	Grab	SS				1				
	Grab	SS				1				
	Grab	SS				1				
	Grab	SS				1				
	Grab	SS				1				
	Grab	SS				1				
	Grab	SS				1				
	Grab	SS				1				

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☒ FedEx ☐ Courier ☐ UPS ☐ _____	Condition: (lab use only)
	10-21-16	1200			OK
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.3 / Bottles Received: 20=20	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 9:00	pH Checked: / NCF:

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

Cooler Receipt Form

Client:	PORTENVTX	SDG#	L867872
Cooler Received/Opened On: 10/22/16		Temperature Upon Receipt:	AM 3 °c
Received By: Michael Witherspoon			
Signature: Mwit			

Receipt Check List	Yes	No	N/A
Were custody seals on outside of cooler and intact?			✓
Were custody papers properly filled out?	✓		
Did all bottles arrive in good condition?	✓		
Were correct bottles used for the analyses requested?	✓		
Was sufficient amount of sample sent in each bottle?	✓		
Were all applicable sample containers correctly preserved and checked for preservation? (Any not in accepted range noted on COC)			✓
If applicable, was an observable VOA headspace present?			
Non Conformance Generated. (If yes see attached NCF)			

ANALYTICAL REPORT

November 17, 2016

Portnoy Environmental

Sample Delivery Group:	L870485
Samples Received:	10/22/2016
Project Number:	MT. VERNON
Description:	Mt. Vernon CS
Site:	MT. VERNON
Report To:	NWPL Team 1414 W. Sam Houston Pkwy. N., Suite 170 Houston, TX 77043

Entire Report Reviewed By:

Tom Mellette
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

[1]Cp: Cover Page 1

[2]Tc: Table of Contents 2

[3]Ss: Sample Summary 6

[4]Cn: Case Narrative 27

[5]Sr: Sample Results 30

000W10:0 L870485-01 30

000W10:18 L870485-02 31

000W10:30 L870485-03 32

00A115:0 L870485-04 33

00A115:18 L870485-05 34

00A115:30 L870485-06 35

00B-87:0 L870485-07 36

00B-87:18 L870485-08 37

00B-87:30 L870485-09 38

00C-70:0 L870485-10 39

00C-70:18 L870485-11 40

00C-70:30 L870485-12 41

00G130:0 L870485-13 42

00G130:18 L870485-14 43

00G130:30 L870485-15 44

00J15:0 L870485-16 45

00J15:18 L870485-17 46

00J15:30 L870485-18 47

00K116:0 L870485-19 48

00K116:12 L870485-20 49

00N-55:0 L870485-21 50

00N-55:18 L870485-22 51

00Q131:0 L870485-23 52

00Q131:18 L870485-24 53

00Q131:30 L870485-25 54

00T-43:0 L870485-26 55

00T-43:18 L870485-27 56

00T-43:30 L870485-28 57

00T91:0 L870485-29 58

00T91:18 L870485-30 59

00T91:30 L870485-31 60

00V28:0 L870485-32 61

00V28:18 L870485-33 62

00V28:30 L870485-34 63

00V105:0 L870485-35 64
00V105:18 L870485-36 65
00V105:30 L870485-37 66
00W16:0 L870485-38 67
00W16:18 L870485-39 68
00W16:30 L870485-40 69
00W38:0 L870485-41 70
00W38:18 L870485-42 71
00W38:30 L870485-43 72
00Y4:0 L870485-44 73
00Y4:18 L870485-45 74
00Y4:30 L870485-46 75
00Z125:0 L870485-47 76
0A133:18 L870485-48 77
0A133:30 L870485-49 78
0A45:0 L870485-50 79
0A45:18 L870485-51 80
0A45:30 L870485-52 81
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0B67:18 L870485-60 89
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0H-45:18 L870485-62 91
0H-45:30 L870485-63 92
0M134:0 L870485-64 93
0M134:18 L870485-65 94
0M134:30 L870485-66 95
0S-47:0 L870485-67 96
0S-47:18 L870485-68 97
0S-47:30 L870485-69 98
0X-54:0 L870485-70 99
0X-54:18 L870485-71 100
0X-54:30 L870485-72 101
OZ121:0 L870485-73 102

OZ121:18 L870485-74 103
OZ121:30 L870485-75 104
AA-70:0 L870485-76 105
AA-70:18 L870485-77 106
AI107:0 L870485-79 107
AI107:18 L870485-80 108
AI107:30 L870485-81 109
AL-72:0 L870485-82 110
AL-72:18 L870485-83 111
AU104:0 L870485-84 112
AU104:18 L870485-85 113
AU104:30 L870485-86 114
AV-74:0 L870485-87 115
AV-74:18 L870485-88 116
AV-74:30 L870485-89 117
BD-77:0 L870485-90 118
BD-77:18 L870485-91 119
BD-77:30 L870485-92 120
BF94:0 L870485-93 121
BF94:18 L870485-94 122
BF94:30 L870485-95 123
BK-68:0 L870485-96 124
BK-68:18 L870485-97 125
BK-68:30 L870485-98 126
BR88:0 L870485-99 127
BR88:18 L870485-100 128
BR88:30 L870485-101 129
BY-75:0 L870485-102 130
BY-75:18 L870485-103 131
BY-75:30 L870485-104 132
CE80:0 L870485-105 133
CE80:18 L870485-106 134
CE80:30 L870485-107 135
CH-78:0 L870485-108 136
CH-78:18 L870485-109 137
CH-78:30 L870485-110 138
CM82:0 L870485-111 139
CM82:18 L870485-112 140
CM82:30 L870485-113 141

CO-73:0 L870485-114 142
CO-73:18 L870485-115 143
CS-88:0 L870485-116 144
CS88:18 L870485-117 145
CS88:30 L870485-118 146
CU-71:0 L870485-119 147
CU-71:18 L870485-120 148
CU-71:30 L870485-121 149
CY75:0 L870485-122 150
CY75:18 L870485-123 151
CY75:30 L870485-124 152
DE-59:0 L870485-125 153
DE-59:18 L870485-126 154
DE-59:30 L870485-127 155
DE66:0 L870485-128 156
DE66:18 L870485-129 157
DE66:30 L870485-130 158
DH-65:0 L870485-131 159
DI57:0 L870485-132 160
DI57:18 L870485-133 161
DI57:30 L870485-134 162
G-57:0 L870485-135 163
G-57:18 L870485-136 164
G-57:30 L870485-137 165
G134:0 L870485-138 166
G134:12 L870485-139 167
O120:0 L870485-140 168
O120:18 L870485-141 169
O120:30 L870485-142 170
S-61:0 L870485-143 171
S-61:18 L870485-144 172
S-61:30 L870485-145 173
Z114:0 L870485-146 174
Z114:18 L870485-147 175
Z114:24 L870485-148 176

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Metals (ICP) by Method 6010C 192

[7]Gl: Glossary of Terms **200**

[8]Al: Accreditations & Locations 201

[9]Sc: Chain of Custody 202

000W10:0 L870485-01 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923860	1	11/05/16 05:36	11/07/16 14:27	ST
Total Solids by Method 2540 G-2011	WG924069	1	11/08/16 09:05	11/08/16 09:18	MEL

000W10:18 L870485-02 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923860	1	11/05/16 05:36	11/07/16 14:44	ST
Total Solids by Method 2540 G-2011	WG924069	1	11/08/16 09:05	11/08/16 09:18	MEL

000W10:30 L870485-03 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923860	1	11/05/16 05:36	11/07/16 14:47	ST
Total Solids by Method 2540 G-2011	WG924069	1	11/08/16 09:05	11/08/16 09:18	MEL

00A115:0 L870485-04 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923860	1	11/05/16 05:36	11/07/16 15:22	ST
Total Solids by Method 2540 G-2011	WG924069	1	11/08/16 09:05	11/08/16 09:18	MEL

00A115:18 L870485-05 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923860	1	11/05/16 05:36	11/07/16 15:26	ST
Total Solids by Method 2540 G-2011	WG924069	1	11/08/16 09:05	11/08/16 09:18	MEL

00A115:30 L870485-06 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923860	1	11/05/16 05:36	11/07/16 15:29	ST
Total Solids by Method 2540 G-2011	WG924069	1	11/08/16 09:05	11/08/16 09:18	MEL

00B-87:0 L870485-07 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923860	1	11/05/16 05:36	11/07/16 15:32	ST
Total Solids by Method 2540 G-2011	WG924069	1	11/08/16 09:05	11/08/16 09:18	MEL

00B-87:18 L870485-08 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923860	1	11/05/16 05:36	11/07/16 15:35	ST
Total Solids by Method 2540 G-2011	WG924069	1	11/08/16 09:05	11/08/16 09:18	MEL

00B-87:30 L870485-09 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923860	1	11/05/16 05:36	11/07/16 15:38	ST
Total Solids by Method 2540 G-2011	WG924069	1	11/08/16 09:05	11/08/16 09:18	MEL

00C-70:0 L870485-10 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923860	1	11/05/16 05:36	11/07/16 15:41	ST
Total Solids by Method 2540 G-2011	WG924069	1	11/08/16 09:05	11/08/16 09:18	MEL

00C-70:18 L870485-11 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923860	1	11/05/16 05:36	11/07/16 15:43	ST
Total Solids by Method 2540 G-2011	WG924506	1	11/08/16 10:45	11/08/16 10:53	MEL

00C-70:30 L870485-12 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923860	1	11/05/16 05:36	11/07/16 15:46	ST
Total Solids by Method 2540 G-2011	WG924506	1	11/08/16 10:45	11/08/16 10:53	MEL

00G130:0 L870485-13 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923860	1	11/05/16 05:36	11/07/16 15:49	ST
Total Solids by Method 2540 G-2011	WG924506	1	11/08/16 10:45	11/08/16 10:53	MEL

00G130:18 L870485-14 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923860	1	11/05/16 05:36	11/07/16 16:01	ST
Total Solids by Method 2540 G-2011	WG924506	1	11/08/16 10:45	11/08/16 10:53	MEL

00G130:30 L870485-15 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923860	1	11/05/16 05:36	11/07/16 16:04	ST
Total Solids by Method 2540 G-2011	WG924506	1	11/08/16 10:45	11/08/16 10:53	MEL

00J15:0 L870485-16 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923860	1	11/05/16 05:36	11/07/16 16:07	ST
Total Solids by Method 2540 G-2011	WG924506	1	11/08/16 10:45	11/08/16 10:53	MEL

00J15:18 L870485-17 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923860	1	11/05/16 05:36	11/07/16 16:10	ST
Total Solids by Method 2540 G-2011	WG924506	1	11/08/16 10:45	11/08/16 10:53	MEL

00J15:30 L870485-18 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923860	1	11/05/16 05:36	11/07/16 16:12	ST
Total Solids by Method 2540 G-2011	WG924506	1	11/08/16 10:45	11/08/16 10:53	MEL

00K116:0 L870485-19 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923860	1	11/05/16 05:36	11/07/16 16:15	ST
Total Solids by Method 2540 G-2011	WG924506	1	11/08/16 10:45	11/08/16 10:53	MEL

00K116:12 L870485-20 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923860	1	11/05/16 05:36	11/07/16 16:18	ST
Total Solids by Method 2540 G-2011	WG924506	1	11/08/16 10:45	11/08/16 10:53	MEL

00N-55:0 L870485-21 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923865	1	11/05/16 05:36	11/07/16 12:33	ST
Total Solids by Method 2540 G-2011	WG924507	1	11/08/16 10:26	11/08/16 10:34	MEL

00N-55:18 L870485-22 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923865	1	11/05/16 05:36	11/07/16 12:46	ST
Total Solids by Method 2540 G-2011	WG924507	1	11/08/16 10:26	11/08/16 10:34	MEL

00Q131:0 L870485-23 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923865	1	11/05/16 05:36	11/07/16 12:48	ST
Total Solids by Method 2540 G-2011	WG924507	1	11/08/16 10:26	11/08/16 10:34	MEL

00Q131:18 L870485-24 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923865	1	11/05/16 05:36	11/07/16 12:56	ST
Total Solids by Method 2540 G-2011	WG924507	1	11/08/16 10:26	11/08/16 10:34	MEL

00Q131:30 L870485-25 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923865	1	11/05/16 05:36	11/07/16 12:59	ST
Total Solids by Method 2540 G-2011	WG924507	1	11/08/16 10:26	11/08/16 10:34	MEL

00T-43:0 L870485-26 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923865	1	11/05/16 05:36	11/07/16 13:02	ST
Total Solids by Method 2540 G-2011	WG924507	1	11/08/16 10:26	11/08/16 10:34	MEL

00T-43:18 L870485-27 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923865	1	11/05/16 05:36	11/07/16 13:04	ST
Total Solids by Method 2540 G-2011	WG924507	1	11/08/16 10:26	11/08/16 10:34	MEL

00T-43:30 L870485-28 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923865	1	11/05/16 05:36	11/07/16 13:07	ST
Total Solids by Method 2540 G-2011	WG924507	1	11/08/16 10:26	11/08/16 10:34	MEL

00T91:0 L870485-29 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923865	1	11/05/16 05:36	11/07/16 13:10	ST
Total Solids by Method 2540 G-2011	WG924507	1	11/08/16 10:26	11/08/16 10:34	MEL

00T91:18 L870485-30 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923865	1	11/05/16 05:36	11/07/16 13:12	ST
Total Solids by Method 2540 G-2011	WG924507	1	11/08/16 10:26	11/08/16 10:34	MEL

00T91:30 L870485-31 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923865	1	11/05/16 05:36	11/07/16 13:15	ST
Total Solids by Method 2540 G-2011	WG924509	1	11/08/16 10:15	11/08/16 10:24	MEL

00V28:0 L870485-32 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923865	1	11/05/16 05:36	11/07/16 13:18	ST
Total Solids by Method 2540 G-2011	WG924509	1	11/08/16 10:15	11/08/16 10:24	MEL

00V28:18 L870485-33 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923865	1	11/05/16 05:36	11/07/16 13:20	ST
Total Solids by Method 2540 G-2011	WG924509	1	11/08/16 10:15	11/08/16 10:24	MEL

00V28:30 L870485-34 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923865	1	11/05/16 05:36	11/07/16 13:28	ST
Total Solids by Method 2540 G-2011	WG924509	1	11/08/16 10:15	11/08/16 10:24	MEL

00V105:0 L870485-35 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923865	1	11/05/16 05:36	11/07/16 13:31	ST
Total Solids by Method 2540 G-2011	WG924509	1	11/08/16 10:15	11/08/16 10:24	MEL

00V105:18 L870485-36 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923865	1	11/05/16 05:36	11/07/16 13:34	ST
Total Solids by Method 2540 G-2011	WG924509	1	11/08/16 10:15	11/08/16 10:24	MEL

00V105:30 L870485-37 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923865	1	11/05/16 05:36	11/07/16 13:36	ST
Total Solids by Method 2540 G-2011	WG924509	1	11/08/16 10:15	11/08/16 10:24	MEL

00W16:0 L870485-38 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923865	1	11/05/16 05:36	11/07/16 13:39	ST
Total Solids by Method 2540 G-2011	WG924509	1	11/08/16 10:15	11/08/16 10:24	MEL

00W16:18 L870485-39 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923865	1	11/05/16 05:36	11/07/16 13:42	ST
Total Solids by Method 2540 G-2011	WG924509	1	11/08/16 10:15	11/08/16 10:24	MEL

00W16:30 L870485-40 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923865	1	11/05/16 05:36	11/07/16 13:44	ST
Total Solids by Method 2540 G-2011	WG924509	1	11/08/16 10:15	11/08/16 10:24	MEL

00W38:0 L870485-41 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923866	1	11/05/16 05:36	11/07/16 11:05	ST
Total Solids by Method 2540 G-2011	WG924510	1	11/08/16 09:43	11/08/16 09:52	MEL

00W38:18 L870485-42 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923866	1	11/05/16 05:36	11/07/16 11:18	ST
Total Solids by Method 2540 G-2011	WG924510	1	11/08/16 09:43	11/08/16 09:52	MEL

00W38:30 L870485-43 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923866	1	11/05/16 05:36	11/07/16 11:21	ST
Total Solids by Method 2540 G-2011	WG924510	1	11/08/16 09:43	11/08/16 09:52	MEL

00Y4:0 L870485-44 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923866	1	11/05/16 05:36	11/07/16 11:29	ST
Total Solids by Method 2540 G-2011	WG924510	1	11/08/16 09:43	11/08/16 09:52	MEL

00Y4:18 L870485-45 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923866	1	11/05/16 05:36	11/07/16 11:31	ST
Total Solids by Method 2540 G-2011	WG924510	1	11/08/16 09:43	11/08/16 09:52	MEL

00Y4:30 L870485-46 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923866	1	11/05/16 05:36	11/07/16 11:34	ST
Total Solids by Method 2540 G-2011	WG924510	1	11/08/16 09:43	11/08/16 09:52	MEL

00Z125:0 L870485-47 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923866	1	11/05/16 05:36	11/07/16 11:37	ST
Total Solids by Method 2540 G-2011	WG924510	1	11/08/16 09:43	11/08/16 09:52	MEL

0A133:18 L870485-48 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923866	1	11/05/16 05:36	11/07/16 11:40	ST
Total Solids by Method 2540 G-2011	WG924510	1	11/08/16 09:43	11/08/16 09:52	MEL

0A133:30 L870485-49 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923866	1	11/05/16 05:36	11/07/16 11:42	ST
Total Solids by Method 2540 G-2011	WG924510	1	11/08/16 09:43	11/08/16 09:52	MEL

0A45:0 L870485-50 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923866	1	11/05/16 05:36	11/07/16 11:45	ST
Total Solids by Method 2540 G-2011	WG924510	1	11/08/16 09:43	11/08/16 09:52	MEL

0A45:18 L870485-51 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923866	1	11/05/16 05:36	11/07/16 11:48	ST
Total Solids by Method 2540 G-2011	WG924511	1	11/08/16 09:31	11/08/16 09:40	MEL

0A45:30 L870485-52 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923866	1	11/05/16 05:36	11/07/16 11:50	ST
Total Solids by Method 2540 G-2011	WG924511	1	11/08/16 09:31	11/08/16 09:40	MEL

0A55:0 L870485-53 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923866	1	11/05/16 05:36	11/07/16 11:53	ST
Total Solids by Method 2540 G-2011	WG924511	1	11/08/16 09:31	11/08/16 09:40	MEL

0A55:18 L870485-54 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923866	1	11/05/16 05:36	11/07/16 12:01	ST
Total Solids by Method 2540 G-2011	WG924511	1	11/08/16 09:31	11/08/16 09:40	MEL

0A55:30 L870485-55 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923866	1	11/05/16 05:36	11/07/16 12:04	ST
Total Solids by Method 2540 G-2011	WG924511	1	11/08/16 09:31	11/08/16 09:40	MEL

0A78:0 L870485-56 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923866	1	11/05/16 05:36	11/07/16 12:07	ST
Total Solids by Method 2540 G-2011	WG924511	1	11/08/16 09:31	11/08/16 09:40	MEL

0A78:18 L870485-57 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923866	1	11/05/16 05:36	11/07/16 12:09	ST
Total Solids by Method 2540 G-2011	WG924511	1	11/08/16 09:31	11/08/16 09:40	MEL

0A78:30 L870485-58 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923866	1	11/05/16 05:36	11/07/16 12:12	ST
Total Solids by Method 2540 G-2011	WG924511	1	11/08/16 09:31	11/08/16 09:40	MEL

0B67:0 L870485-59 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923866	1	11/05/16 05:36	11/07/16 12:15	ST
Total Solids by Method 2540 G-2011	WG924511	1	11/08/16 09:31	11/08/16 09:40	MEL

0B67:18 L870485-60 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923866	1	11/05/16 05:36	11/07/16 12:17	ST
Total Solids by Method 2540 G-2011	WG924511	1	11/08/16 09:31	11/08/16 09:40	MEL

0H-45:0 L870485-61 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923867	1	11/07/16 08:51	11/08/16 00:01	LTB
Total Solids by Method 2540 G-2011	WG924512	1	11/08/16 09:20	11/08/16 09:29	MEL

0H-45:18 L870485-62 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923867	1	11/07/16 08:51	11/08/16 00:14	LTB
Total Solids by Method 2540 G-2011	WG924512	1	11/08/16 09:20	11/08/16 09:29	MEL

0H-45:30 L870485-63 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923867	1	11/07/16 08:51	11/08/16 00:17	LTB
Total Solids by Method 2540 G-2011	WG924512	1	11/08/16 09:20	11/08/16 09:29	MEL

0M134:0 L870485-64 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923867	1	11/07/16 08:51	11/08/16 00:25	LTB
Total Solids by Method 2540 G-2011	WG924512	1	11/08/16 09:20	11/08/16 09:29	MEL

0M134:18 L870485-65 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923867	1	11/07/16 08:51	11/08/16 00:28	LTB
Total Solids by Method 2540 G-2011	WG924512	1	11/08/16 09:20	11/08/16 09:29	MEL

0M134:30 L870485-66 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923867	1	11/07/16 08:51	11/08/16 00:31	LTB
Total Solids by Method 2540 G-2011	WG924512	1	11/08/16 09:20	11/08/16 09:29	MEL

0S-47:0 L870485-67 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923867	1	11/07/16 08:51	11/08/16 00:36	LTB
Total Solids by Method 2540 G-2011	WG924512	1	11/08/16 09:20	11/08/16 09:29	MEL

0S-47:18 L870485-68 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923867	1	11/07/16 08:51	11/08/16 00:38	LTB
Total Solids by Method 2540 G-2011	WG924512	1	11/08/16 09:20	11/08/16 09:29	MEL

0S-47:30 L870485-69 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923867	1	11/07/16 08:51	11/08/16 00:41	LTB
Total Solids by Method 2540 G-2011	WG924512	1	11/08/16 09:20	11/08/16 09:29	MEL

0X-54:0 L870485-70 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923867	1	11/07/16 08:51	11/08/16 00:44	LTB
Total Solids by Method 2540 G-2011	WG924512	1	11/08/16 09:20	11/08/16 09:29	MEL

0X-54:18 L870485-71 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923867	1	11/07/16 08:51	11/08/16 00:46	LTB
Total Solids by Method 2540 G-2011	WG924513	1	11/08/16 14:56	11/08/16 15:03	MEL

0X-54:30 L870485-72 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923867	1	11/07/16 08:51	11/08/16 00:49	LTB
Total Solids by Method 2540 G-2011	WG924513	1	11/08/16 14:56	11/08/16 15:03	MEL

OZ121:0 L870485-73 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923867	1	11/07/16 08:51	11/08/16 00:52	LTB
Total Solids by Method 2540 G-2011	WG924513	1	11/08/16 14:56	11/08/16 15:03	MEL

OZ121:18 L870485-74 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923867	1	11/07/16 08:51	11/08/16 01:00	LTB
Total Solids by Method 2540 G-2011	WG924513	1	11/08/16 14:56	11/08/16 15:03	MEL

OZ121:30 L870485-75 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923867	1	11/07/16 08:51	11/08/16 01:03	LTB
Total Solids by Method 2540 G-2011	WG924513	1	11/08/16 14:56	11/08/16 15:03	MEL

AA-70:0 L870485-76 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923867	1	11/07/16 08:51	11/08/16 01:05	LTB
Total Solids by Method 2540 G-2011	WG924513	1	11/08/16 14:56	11/08/16 15:03	MEL

AA-70:18 L870485-77 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923867	1	11/07/16 08:51	11/08/16 01:08	LTB
Total Solids by Method 2540 G-2011	WG924513	1	11/08/16 14:56	11/08/16 15:03	MEL

Al107:0 L870485-79 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923867	1	11/07/16 08:51	11/08/16 01:10	LTB
Total Solids by Method 2540 G-2011	WG924513	1	11/08/16 14:56	11/08/16 15:03	MEL

Al107:18 L870485-80 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923867	1	11/07/16 08:51	11/08/16 01:13	LTB
Total Solids by Method 2540 G-2011	WG924513	1	11/08/16 14:56	11/08/16 15:03	MEL

Al107:30 L870485-81 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923870	1	11/07/16 09:27	11/08/16 11:02	LTB
Total Solids by Method 2540 G-2011	WG924513	1	11/08/16 14:56	11/08/16 15:03	MEL

AL-72:0 L870485-82 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923870	1	11/07/16 09:27	11/08/16 11:10	LTB
Total Solids by Method 2540 G-2011	WG924514	1	11/08/16 11:49	11/08/16 11:57	MEL

AL-72:18 L870485-83 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923870	1	11/07/16 09:27	11/08/16 11:13	LTB
Total Solids by Method 2540 G-2011	WG924514	1	11/08/16 11:49	11/08/16 11:57	MEL

AU104:0 L870485-84 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923870	1	11/07/16 09:27	11/08/16 11:16	LTB
Total Solids by Method 2540 G-2011	WG924514	1	11/08/16 11:49	11/08/16 11:57	MEL

AU104:18 L870485-85 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923870	1	11/07/16 09:27	11/08/16 11:18	LTB
Total Solids by Method 2540 G-2011	WG924514	1	11/08/16 11:49	11/08/16 11:57	MEL

AU104:30 L870485-86 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923870	1	11/07/16 09:27	11/08/16 11:21	LTB
Total Solids by Method 2540 G-2011	WG924514	1	11/08/16 11:49	11/08/16 11:57	MEL

AV-74:0 L870485-87 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923870	1	11/07/16 09:27	11/08/16 11:24	LTB
Total Solids by Method 2540 G-2011	WG924514	1	11/08/16 11:49	11/08/16 11:57	MEL

AV-74:18 L870485-88 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923870	1	11/07/16 09:27	11/08/16 12:42	LTB
Total Solids by Method 2540 G-2011	WG924514	1	11/08/16 11:49	11/08/16 11:57	MEL

AV-74:30 L870485-89 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923870	1	11/07/16 09:27	11/08/16 11:29	LTB
Total Solids by Method 2540 G-2011	WG924514	1	11/08/16 11:49	11/08/16 11:57	MEL

BD-77:0 L870485-90 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923870	1	11/07/16 09:27	11/08/16 11:32	LTB
Total Solids by Method 2540 G-2011	WG924514	1	11/08/16 11:49	11/08/16 11:57	MEL

BD-77:18 L870485-91 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923870	1	11/07/16 09:27	11/08/16 11:35	LTB
Total Solids by Method 2540 G-2011	WG924514	1	11/08/16 11:49	11/08/16 11:57	MEL

BD-77:30 L870485-92 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923870	1	11/07/16 09:27	11/08/16 02:25	JDG
Total Solids by Method 2540 G-2011	WG924516	1	11/08/16 11:32	11/08/16 11:41	MEL

BF94:0 L870485-93 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923870	1	11/07/16 09:27	11/08/16 02:28	JDG
Total Solids by Method 2540 G-2011	WG924516	1	11/08/16 11:32	11/08/16 11:41	MEL

BF94:18 L870485-94 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923870	1	11/07/16 09:27	11/08/16 02:31	JDG
Total Solids by Method 2540 G-2011	WG924516	1	11/08/16 11:32	11/08/16 11:41	MEL

BF94:30 L870485-95 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923870	1	11/07/16 09:27	11/08/16 02:33	JDG
Total Solids by Method 2540 G-2011	WG924516	1	11/08/16 11:32	11/08/16 11:41	MEL

BK-68:0 L870485-96 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923870	1	11/07/16 09:27	11/08/16 02:36	JDG
Total Solids by Method 2540 G-2011	WG924516	1	11/08/16 11:32	11/08/16 11:41	MEL

BK-68:18 L870485-97 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923870	1	11/07/16 09:27	11/08/16 02:39	JDG
Total Solids by Method 2540 G-2011	WG924516	1	11/08/16 11:32	11/08/16 11:41	MEL

BK-68:30 L870485-98 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923870	1	11/07/16 09:27	11/08/16 02:42	JDG
Total Solids by Method 2540 G-2011	WG924516	1	11/08/16 11:32	11/08/16 11:41	MEL

BR88:0 L870485-99 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923870	1	11/07/16 09:27	11/08/16 10:46	LTB
Total Solids by Method 2540 G-2011	WG924516	1	11/08/16 11:32	11/08/16 11:41	MEL

BR88:18 L870485-100 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923870	1	11/07/16 09:27	11/08/16 11:00	LTB
Total Solids by Method 2540 G-2011	WG924516	1	11/08/16 11:32	11/08/16 11:41	MEL

BR88:30 L870485-101 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923871	1	11/07/16 11:44	11/08/16 13:11	ST
Total Solids by Method 2540 G-2011	WG924516	1	11/08/16 11:32	11/08/16 11:41	MEL

BY-75:0 L870485-102 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923871	1	11/07/16 11:44	11/08/16 13:25	ST
Total Solids by Method 2540 G-2011	WG924518	1	11/08/16 11:20	11/08/16 11:28	MEL

BY-75:18 L870485-103 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923871	1	11/07/16 11:44	11/08/16 13:28	ST
Total Solids by Method 2540 G-2011	WG924518	1	11/08/16 11:20	11/08/16 11:28	MEL

BY-75:30 L870485-104 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923871	1	11/07/16 11:44	11/08/16 13:36	ST
Total Solids by Method 2540 G-2011	WG924518	1	11/08/16 11:20	11/08/16 11:28	MEL

CE80:0 L870485-105 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923871	1	11/07/16 11:44	11/08/16 13:39	ST
Total Solids by Method 2540 G-2011	WG924518	1	11/08/16 11:20	11/08/16 11:28	MEL

CE80:18 L870485-106 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923871	1	11/07/16 11:44	11/08/16 13:42	ST
Total Solids by Method 2540 G-2011	WG924518	1	11/08/16 11:20	11/08/16 11:28	MEL

CE80:30 L870485-107 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923871	1	11/07/16 11:44	11/08/16 13:45	ST
Total Solids by Method 2540 G-2011	WG924518	1	11/08/16 11:20	11/08/16 11:28	MEL

CH-78:0 L870485-108 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923871	1	11/07/16 11:44	11/08/16 13:48	ST
Total Solids by Method 2540 G-2011	WG924518	1	11/08/16 11:20	11/08/16 11:28	MEL

CH-78:18 L870485-109 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923871	1	11/07/16 11:44	11/08/16 13:51	ST
Total Solids by Method 2540 G-2011	WG924518	1	11/08/16 11:20	11/08/16 11:28	MEL

CH-78:30 L870485-110 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923871	1	11/07/16 11:44	11/08/16 13:54	ST
Total Solids by Method 2540 G-2011	WG924518	1	11/08/16 11:20	11/08/16 11:28	MEL

CM82:0 L870485-111 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923871	1	11/07/16 11:44	11/08/16 13:57	ST
Total Solids by Method 2540 G-2011	WG924518	1	11/08/16 11:20	11/08/16 11:28	MEL

CM82:18 L870485-112 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923871	1	11/07/16 11:44	11/08/16 14:00	ST
Total Solids by Method 2540 G-2011	WG924519	1	11/08/16 11:09	11/08/16 11:17	MEL

CM82:30 L870485-113 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923871	1	11/07/16 11:44	11/08/16 14:03	ST
Total Solids by Method 2540 G-2011	WG924519	1	11/08/16 11:09	11/08/16 11:17	MEL

CO-73:0 L870485-114 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923871	1	11/07/16 11:44	11/08/16 14:11	ST
Total Solids by Method 2540 G-2011	WG924519	1	11/08/16 11:09	11/08/16 11:17	MEL

CO-73:18 L870485-115 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923871	1	11/07/16 11:44	11/08/16 14:14	ST
Total Solids by Method 2540 G-2011	WG924519	1	11/08/16 11:09	11/08/16 11:17	MEL

CS-88:0 L870485-116 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923871	1	11/07/16 11:44	11/08/16 14:17	ST
Total Solids by Method 2540 G-2011	WG924519	1	11/08/16 11:09	11/08/16 11:17	MEL

CS88:18 L870485-117 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923871	1	11/07/16 11:44	11/08/16 14:20	ST
Total Solids by Method 2540 G-2011	WG924519	1	11/08/16 11:09	11/08/16 11:17	MEL

CS88:30 L870485-118 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923871	1	11/07/16 11:44	11/08/16 14:23	ST
Total Solids by Method 2540 G-2011	WG924519	1	11/08/16 11:09	11/08/16 11:17	MEL

CU-71:0 L870485-119 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923871	1	11/07/16 11:44	11/08/16 14:26	ST
Total Solids by Method 2540 G-2011	WG924519	1	11/08/16 11:09	11/08/16 11:17	MEL

CU-71:18 L870485-120 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923871	1	11/07/16 11:44	11/08/16 14:29	ST
Total Solids by Method 2540 G-2011	WG924519	1	11/08/16 11:09	11/08/16 11:17	MEL

CU-71:30 L870485-121 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923872	1	11/07/16 11:25	11/08/16 10:40	LTB
Total Solids by Method 2540 G-2011	WG924519	1	11/08/16 11:09	11/08/16 11:17	MEL

CY75:0 L870485-122 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923872	1	11/07/16 11:25	11/08/16 10:43	LTB
Total Solids by Method 2540 G-2011	WG924520	1	11/08/16 10:56	11/08/16 11:06	MEL

CY75:18 L870485-123 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923872	1	11/07/16 11:25	11/08/16 10:52	LTB
Total Solids by Method 2540 G-2011	WG924520	1	11/08/16 10:56	11/08/16 11:06	MEL

CY75:30 L870485-124 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923872	1	11/07/16 11:25	11/08/16 10:55	LTB
Total Solids by Method 2540 G-2011	WG924520	1	11/08/16 10:56	11/08/16 11:06	MEL

DE-59:0 L870485-125 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923872	1	11/07/16 11:25	11/08/16 10:58	LTB
Total Solids by Method 2540 G-2011	WG924520	1	11/08/16 10:56	11/08/16 11:06	MEL

DE-59:18 L870485-126 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923872	1	11/07/16 11:25	11/08/16 11:01	LTB
Total Solids by Method 2540 G-2011	WG924520	1	11/08/16 10:56	11/08/16 11:06	MEL

DE-59:30 L870485-127 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923872	1	11/07/16 11:25	11/08/16 11:04	LTB
Total Solids by Method 2540 G-2011	WG924520	1	11/08/16 10:56	11/08/16 11:06	MEL

DE66:0 L870485-128 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923872	1	11/07/16 11:25	11/08/16 11:07	LTB
Total Solids by Method 2540 G-2011	WG924520	1	11/08/16 10:56	11/08/16 11:06	MEL

DE66:18 L870485-129 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923872	1	11/07/16 11:25	11/08/16 11:10	LTB
Total Solids by Method 2540 G-2011	WG924520	1	11/08/16 10:56	11/08/16 11:06	MEL

DE66:30 L870485-130 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923872	1	11/07/16 11:25	11/08/16 11:13	LTB
Total Solids by Method 2540 G-2011	WG924520	1	11/08/16 10:56	11/08/16 11:06	MEL

DH-65:0 L870485-131 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923872	1	11/07/16 11:25	11/08/16 11:16	LTB
Total Solids by Method 2540 G-2011	WG924520	1	11/08/16 10:56	11/08/16 11:06	MEL

DI57:0 L870485-132 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923872	1	11/07/16 11:25	11/08/16 11:18	LTB
Total Solids by Method 2540 G-2011	WG924656	1	11/08/16 14:43	11/08/16 14:50	MEL

DI57:18 L870485-133 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923872	1	11/07/16 11:25	11/08/16 11:27	LTB
Total Solids by Method 2540 G-2011	WG924656	1	11/08/16 14:43	11/08/16 14:50	MEL

DI57:30 L870485-134 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923872	1	11/07/16 11:25	11/08/16 11:30	LTB
Total Solids by Method 2540 G-2011	WG924656	1	11/08/16 14:43	11/08/16 14:50	MEL

G-57:0 L870485-135 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923872	1	11/07/16 11:25	11/08/16 11:33	LTB
Total Solids by Method 2540 G-2011	WG924656	1	11/08/16 14:43	11/08/16 14:50	MEL

G-57:18 L870485-136 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923872	1	11/07/16 11:25	11/08/16 11:36	LTB
Total Solids by Method 2540 G-2011	WG924656	1	11/08/16 14:43	11/08/16 14:50	MEL

G-57:30 L870485-137 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923872	1	11/07/16 11:25	11/08/16 11:39	LTB
Total Solids by Method 2540 G-2011	WG924656	1	11/08/16 14:43	11/08/16 14:50	MEL

G134:0 L870485-138 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923872	1	11/07/16 11:25	11/08/16 11:42	LTB
Total Solids by Method 2540 G-2011	WG924656	1	11/08/16 14:43	11/08/16 14:50	MEL

G134:12 L870485-139 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923872	1	11/07/16 11:25	11/08/16 11:45	LTB
Total Solids by Method 2540 G-2011	WG924656	1	11/08/16 14:43	11/08/16 14:50	MEL

O120:0 L870485-140 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG923872	1	11/07/16 11:25	11/08/16 10:26	LTB
Total Solids by Method 2540 G-2011	WG924656	1	11/08/16 14:43	11/08/16 14:50	MEL

O120:18 L870485-141 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG924406	1	11/07/16 15:03	11/07/16 20:47	ST
Total Solids by Method 2540 G-2011	WG924656	1	11/08/16 14:43	11/08/16 14:50	MEL

O120:30 L870485-142 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG924406	1	11/07/16 15:03	11/07/16 20:50	ST
Total Solids by Method 2540 G-2011	WG924657	1	11/08/16 14:34	11/08/16 14:41	MEL

S-61:0 L870485-143 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG924406	1	11/07/16 15:03	11/07/16 20:53	ST
Total Solids by Method 2540 G-2011	WG924657	1	11/08/16 14:34	11/08/16 14:41	MEL

S-61:18 L870485-144 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG924406	1	11/07/16 15:03	11/07/16 20:56	ST
Total Solids by Method 2540 G-2011	WG924657	1	11/08/16 14:34	11/08/16 14:41	MEL

S-61:30 L870485-145 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG924406	1	11/07/16 15:03	11/07/16 20:59	ST
Total Solids by Method 2540 G-2011	WG924657	1	11/08/16 14:34	11/08/16 14:41	MEL

Z114:0 L870485-146 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG924406	1	11/07/16 15:03	11/07/16 20:19	ST
Total Solids by Method 2540 G-2011	WG924657	1	11/08/16 14:34	11/08/16 14:41	MEL

Z114:18 L870485-147 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG924406	1	11/07/16 15:03	11/07/16 21:02	ST
Total Solids by Method 2540 G-2011	WG924657	1	11/08/16 14:34	11/08/16 14:41	MEL

Z114:24 L870485-148 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG924406	1	11/07/16 15:03	11/07/16 21:05	ST
Total Solids by Method 2540 G-2011	WG924657	1	11/08/16 14:34	11/08/16 14:41	MEL

All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Tom Mellette
Technical Service Representative

Sample Handling and Receiving

The following samples were prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.

ESC Sample ID	Project Sample ID	Method
L870485-01	000W10:0	2540 G-2011
L870485-02	000W10:18	2540 G-2011
L870485-03	000W10:30	2540 G-2011
L870485-04	00A115:0	2540 G-2011
L870485-05	00A115:18	2540 G-2011
L870485-06	00A115:30	2540 G-2011
L870485-07	00B-87:0	2540 G-2011
L870485-08	00B-87:18	2540 G-2011
L870485-09	00B-87:30	2540 G-2011
L870485-10	00C-70:0	2540 G-2011
L870485-100	BR88:18	2540 G-2011
L870485-101	BR88:30	2540 G-2011
L870485-102	BY-75:0	2540 G-2011
L870485-103	BY-75:18	2540 G-2011
L870485-104	BY-75:30	2540 G-2011
L870485-105	CE80:0	2540 G-2011
L870485-106	CE80:18	2540 G-2011
L870485-107	CE80:30	2540 G-2011
L870485-108	CH-78:0	2540 G-2011
L870485-109	CH-78:18	2540 G-2011
L870485-11	00C-70:18	2540 G-2011
L870485-110	CH-78:30	2540 G-2011
L870485-111	CM82:0	2540 G-2011
L870485-112	CM82:18	2540 G-2011
L870485-113	CM82:30	2540 G-2011
L870485-114	CO-73:0	2540 G-2011
L870485-115	CO-73:18	2540 G-2011
L870485-116	CS-88:0	2540 G-2011
L870485-117	CS88:18	2540 G-2011
L870485-118	CS88:30	2540 G-2011
L870485-119	CU-71:0	2540 G-2011
L870485-12	00C-70:30	2540 G-2011
L870485-120	CU-71:18	2540 G-2011
L870485-121	CU-71:30	2540 G-2011
L870485-122	CY75:0	2540 G-2011
L870485-123	CY75:18	2540 G-2011
L870485-124	CY75:30	2540 G-2011

The following samples were prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.

ESC Sample ID	Project Sample ID	Method
L870485-125	DE-59:0	2540 G-2011
L870485-126	DE-59:18	2540 G-2011
L870485-127	DE-59:30	2540 G-2011
L870485-128	DE66:0	2540 G-2011
L870485-129	DE66:18	2540 G-2011
L870485-13	00G130:0	2540 G-2011
L870485-130	DE66:30	2540 G-2011
L870485-131	DH-65:0	2540 G-2011
L870485-132	DI57:0	2540 G-2011
L870485-133	DI57:18	2540 G-2011
L870485-134	DI57:30	2540 G-2011
L870485-135	G-57:0	2540 G-2011
L870485-136	G-57:18	2540 G-2011
L870485-137	G-57:30	2540 G-2011
L870485-138	G134:0	2540 G-2011
L870485-139	G134:12	2540 G-2011
L870485-14	00G130:18	2540 G-2011
L870485-140	O120:0	2540 G-2011
L870485-141	O120:18	2540 G-2011
L870485-142	O120:30	2540 G-2011
L870485-143	S-61:0	2540 G-2011
L870485-144	S-61:18	2540 G-2011
L870485-145	S-61:30	2540 G-2011
L870485-146	Z114:0	2540 G-2011
L870485-147	Z114:18	2540 G-2011
L870485-148	Z114:24	2540 G-2011
L870485-15	00G130:30	2540 G-2011
L870485-16	00J15:0	2540 G-2011
L870485-17	00J15:18	2540 G-2011
L870485-18	00J15:30	2540 G-2011
L870485-19	00K116:0	2540 G-2011
L870485-20	00K116:12	2540 G-2011
L870485-21	00N-55:0	2540 G-2011
L870485-22	00N-55:18	2540 G-2011
L870485-23	00Q131:0	2540 G-2011
L870485-24	00Q131:18	2540 G-2011
L870485-25	00Q131:30	2540 G-2011
L870485-26	00T-43:0	2540 G-2011
L870485-27	00T-43:18	2540 G-2011
L870485-28	00T-43:30	2540 G-2011
L870485-29	00T91:0	2540 G-2011
L870485-30	00T91:18	2540 G-2011
L870485-31	00T91:30	2540 G-2011
L870485-32	00V28:0	2540 G-2011
L870485-33	00V28:18	2540 G-2011
L870485-34	00V28:30	2540 G-2011
L870485-35	00V105:0	2540 G-2011
L870485-36	00V105:18	2540 G-2011
L870485-37	00V105:30	2540 G-2011
L870485-38	00W16:0	2540 G-2011
L870485-39	00W16:18	2540 G-2011
L870485-40	00W16:30	2540 G-2011
L870485-41	00W38:0	2540 G-2011
L870485-42	00W38:18	2540 G-2011
L870485-43	00W38:30	2540 G-2011
L870485-44	00Y4:0	2540 G-2011
L870485-45	00Y4:18	2540 G-2011
L870485-46	00Y4:30	2540 G-2011
L870485-47	00Z125:0	2540 G-2011
L870485-48	0A133:18	2540 G-2011
L870485-49	0A133:30	2540 G-2011
L870485-50	0A45:0	2540 G-2011
L870485-51	0A45:18	2540 G-2011
L870485-52	0A45:30	2540 G-2011

The following samples were prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.

ESC Sample ID	Project Sample ID	Method
L870485-53	0A55:0	2540 G-2011
L870485-54	0A55:18	2540 G-2011
L870485-55	0A55:30	2540 G-2011
L870485-56	0A78:0	2540 G-2011
L870485-57	0A78:18	2540 G-2011
L870485-58	0A78:30	2540 G-2011
L870485-59	0B67:0	2540 G-2011
L870485-60	0B67:18	2540 G-2011
L870485-61	0H-45:0	2540 G-2011
L870485-62	0H-45:18	2540 G-2011
L870485-63	0H-45:30	2540 G-2011
L870485-64	0M134:0	2540 G-2011
L870485-65	0M134:18	2540 G-2011
L870485-66	0M134:30	2540 G-2011
L870485-67	0S-47:0	2540 G-2011
L870485-68	0S-47:18	2540 G-2011
L870485-69	0S-47:30	2540 G-2011
L870485-70	0X-54:0	2540 G-2011
L870485-71	0X-54:18	2540 G-2011
L870485-72	0X-54:30	2540 G-2011
L870485-73	OZ121:0	2540 G-2011
L870485-74	OZ121:18	2540 G-2011
L870485-75	OZ121:30	2540 G-2011
L870485-76	AA-70:0	2540 G-2011
L870485-77	AA-70:18	2540 G-2011
L870485-79	AI107:0	2540 G-2011
L870485-80	AI107:18	2540 G-2011
L870485-81	AI107:30	2540 G-2011
L870485-82	AL-72:0	2540 G-2011
L870485-83	AL-72:18	2540 G-2011
L870485-84	AU104:0	2540 G-2011
L870485-85	AU104:18	2540 G-2011
L870485-86	AU104:30	2540 G-2011
L870485-87	AV-74:0	2540 G-2011
L870485-88	AV-74:18	2540 G-2011
L870485-89	AV-74:30	2540 G-2011
L870485-90	BD-77:0	2540 G-2011
L870485-91	BD-77:18	2540 G-2011
L870485-92	BD-77:30	2540 G-2011
L870485-93	BF94:0	2540 G-2011
L870485-94	BF94:18	2540 G-2011
L870485-95	BF94:30	2540 G-2011
L870485-96	BK-68:0	2540 G-2011
L870485-97	BK-68:18	2540 G-2011
L870485-98	BK-68:30	2540 G-2011
L870485-99	BR88:0	2540 G-2011

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	60.4		1	11/08/2016 09:18	WG924069

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	59.0		1.65	1	11/07/2016 14:27	WG923860

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	70.0		1	11/08/2016 09:18	WG924069

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	61.9		1.43	1	11/07/2016 14:44	WG923860

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	69.2		1	11/08/2016 09:18	WG924069

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	82.4		1.44	1	11/07/2016 14:47	WG923860

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	37.6		1	11/08/2016 09:18	WG924069

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	25.4		2.66	1	11/07/2016 15:22	WG923860

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	74.5		1	11/08/2016 09:18	WG924069

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	88.7		1.34	1	11/07/2016 15:26	WG923860

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.6		1	11/08/2016 09:18	WG924069

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	79.6		1.17	1	11/07/2016 15:29	WG923860

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.7		1	11/08/2016 09:18	WG924069

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	86.7		1.32	1	11/07/2016 15:32	WG923860

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	74.6		1	11/08/2016 09:18	WG924069

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	60.4		1.34	1	11/07/2016 15:35	WG923860

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.3		1	11/08/2016 09:18	WG924069

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	37.0		1.31	1	11/07/2016 15:38	WG923860

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	63.1		1	11/08/2016 09:18	WG924069

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	67.2		1.58	1	11/07/2016 15:41	WG923860

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	71.7		1	11/08/2016 10:53	WG924506

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	72.1		1.40	1	11/07/2016 15:43	WG923860

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.5		1	11/08/2016 10:53	WG924506

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	109		1.27	1	11/07/2016 15:46	WG923860

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	67.7		1	11/08/2016 10:53	WG924506

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	73.3		1.48	1	11/07/2016 15:49	WG923860

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	72.1		1	11/08/2016 10:53	WG924506

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	91.2		1.39	1	11/07/2016 16:01	WG923860

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	74.9		1	11/08/2016 10:53	WG924506

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	75.6		1.34	1	11/07/2016 16:04	WG923860

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	62.3		1	11/08/2016 10:53	WG924506

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	41.8		1.60	1	11/07/2016 16:07	WG923860

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	66.7		1	11/08/2016 10:53	WG924506

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	64.3		1.50	1	11/07/2016 16:10	WG923860

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	74.4		1	11/08/2016 10:53	WG924506

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	78.4		1.34	1	11/07/2016 16:12	WG923860

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	69.1		1	11/08/2016 10:53	WG924506

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	62.5		1.45	1	11/07/2016 16:15	WG923860

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	69.3		1	11/08/2016 10:53	WG924506

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	59.5		1.44	1	11/07/2016 16:18	WG923860

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	65.7		1	11/08/2016 10:34	WG924507

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	60.5		1.52	1	11/07/2016 12:33	WG923865

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	69.5		1	11/08/2016 10:34	WG924507

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	53.4		1.44	1	11/07/2016 12:46	WG923865

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	50.5		1	11/08/2016 10:34	WG924507

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	33.9		1.98	1	11/07/2016 12:48	WG923865

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.3		1	11/08/2016 10:34	WG924507

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	51.0		1.19	1	11/07/2016 12:56	WG923865

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.6		1	11/08/2016 10:34	WG924507

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	70.6		1.22	1	11/07/2016 12:59	WG923865

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	70.1		1	11/08/2016 10:34	WG924507

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	76.4		1.43	1	11/07/2016 13:02	WG923865

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.7		1	11/08/2016 10:34	WG924507

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	154		1.14	1	11/07/2016 13:04	WG923865

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.0		1	11/08/2016 10:34	WG924507

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	134		1.10	1	11/07/2016 13:07	WG923865

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	44.6		1	11/08/2016 10:34	WG924507

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	5.04		2.24	1	11/07/2016 13:10	WG923865

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.5		1	11/08/2016 10:34	WG924507

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	47.0		1.33	1	11/07/2016 13:12	WG923865

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.7		1	11/08/2016 10:24	WG924509

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	64.9		1.18	1	11/07/2016 13:15	WG923865

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	74.7		1	11/08/2016 10:24	WG924509

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	76.6		1.34	1	11/07/2016 13:18	WG923865

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.8		1	11/08/2016 10:24	WG924509

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	77.4		1.24	1	11/07/2016 13:20	WG923865

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.7		1	11/08/2016 10:24	WG924509

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	67.9		1.24	1	11/07/2016 13:28	WG923865

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	70.5		1	11/08/2016 10:24	WG924509

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	63.7		1.42	1	11/07/2016 13:31	WG923865

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	67.6		1	11/08/2016 10:24	WG924509

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	67.5		1.48	1	11/07/2016 13:34	WG923865

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.7		1	11/08/2016 10:24	WG924509

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	82.4		1.27	1	11/07/2016 13:36	WG923865

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	55.5		1	11/08/2016 10:24	WG924509

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	61.1		1.80	1	11/07/2016 13:39	WG923865

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	71.2		1	11/08/2016 10:24	WG924509

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	66.9		1.41	1	11/07/2016 13:42	WG923865

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	71.2		1	11/08/2016 10:24	WG924509

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	75.1		1.40	1	11/07/2016 13:44	WG923865

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	70.2		1	11/08/2016 09:52	WG924510

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	77.1		1.43	1	11/07/2016 11:05	WG923866

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	68.8		1	11/08/2016 09:52	WG924510

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	72.5		1.45	1	11/07/2016 11:18	WG923866

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	67.1		1	11/08/2016 09:52	WG924510

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	73.8		1.49	1	11/07/2016 11:21	WG923866

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	68.7		1	11/08/2016 09:52	WG924510

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	72.9		1.46	1	11/07/2016 11:29	WG923866

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.9		1	11/08/2016 09:52	WG924510

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	74.9		1.15	1	11/07/2016 11:31	WG923866

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	61.6		1	11/08/2016 09:52	WG924510

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	80.9		1.62	1	11/07/2016 11:34	WG923866

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	53.0		1	11/08/2016 09:52	WG924510

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	47.9		1.89	1	11/07/2016 11:37	WG923866

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.1		1	11/08/2016 09:52	WG924510

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	88.3		1.25	1	11/07/2016 11:40	WG923866

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.2		1	11/08/2016 09:52	WG924510

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	82.1		1.30	1	11/07/2016 11:42	WG923866

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	70.9		1	11/08/2016 09:52	WG924510

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	69.0		1.41	1	11/07/2016 11:45	WG923866

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	73.3		1	11/08/2016 09:40	WG924511

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	76.8		1.36	1	11/07/2016 11:48	WG923866

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.3		1	11/08/2016 09:40	WG924511

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	74.9		1.29	1	11/07/2016 11:50	WG923866

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	54.7		1	11/08/2016 09:40	WG924511

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	43.6		1.83	1	11/07/2016 11:53	WG923866

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	71.1		1	11/08/2016 09:40	WG924511

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	75.1		1.41	1	11/07/2016 12:01	WG923866

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.8		1	11/08/2016 09:40	WG924511

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	115		1.28	1	11/07/2016 12:04	WG923866

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	62.2		1	11/08/2016 09:40	WG924511

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	55.8		1.61	1	11/07/2016 12:07	WG923866

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.1		1	11/08/2016 09:40	WG924511

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	83.4		1.33	1	11/07/2016 12:09	WG923866

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.0		1	11/08/2016 09:40	WG924511

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	96.3		1.31	1	11/07/2016 12:12	WG923866

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	64.1		1	11/08/2016 09:40	WG924511

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	81.7		1.56	1	11/07/2016 12:15	WG923866

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.2		1	11/08/2016 09:40	WG924511

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	151		1.12	1	11/07/2016 12:17	WG923866

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	66.2		1	11/08/2016 09:29	WG924512

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	68.4		1.51	1	11/08/2016 00:01	WG923867

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.4		1	11/08/2016 09:29	WG924512

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	87.2		1.33	1	11/08/2016 00:14	WG923867

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.6		1	11/08/2016 09:29	WG924512

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	76.1		1.17	1	11/08/2016 00:17	WG923867

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	71.4		1	11/08/2016 09:29	WG924512

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	70.4		1.40	1	11/08/2016 00:25	WG923867

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.9		1	11/08/2016 09:29	WG924512

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	103		1.27	1	11/08/2016 00:28	WG923867

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.0		1	11/08/2016 09:29	WG924512

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	105		1.30	1	11/08/2016 00:31	WG923867

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.5		1	11/08/2016 09:29	WG924512

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	69.4		1.24	1	11/08/2016 00:36	WG923867

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.6		1	11/08/2016 09:29	WG924512

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	82.2		1.18	1	11/08/2016 00:38	WG923867

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.9		1	11/08/2016 09:29	WG924512

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	103		1.18	1	11/08/2016 00:41	WG923867

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	57.3		1	11/08/2016 09:29	WG924512

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	5.10		1.75	1	11/08/2016 00:44	WG923867

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.0		1	11/08/2016 15:03	WG924513

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	84.0		1.12	1	11/08/2016 00:46	WG923867

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.4		1	11/08/2016 15:03	WG924513

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	157		1.12	1	11/08/2016 00:49	WG923867

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	66.6		1	11/08/2016 15:03	WG924513

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	71.9		1.50	1	11/08/2016 00:52	WG923867

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.2		1	11/08/2016 15:03	WG924513

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	105		1.28	1	11/08/2016 01:00	WG923867

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.1		1	11/08/2016 15:03	WG924513

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	81.5		1.33	1	11/08/2016 01:03	WG923867

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.6		1	11/08/2016 15:03	WG924513

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	106		1.29	1	11/08/2016 01:05	WG923867

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.4		1	11/08/2016 15:03	WG924513

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	102		1.13	1	11/08/2016 01:08	WG923867

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	65.8		1	11/08/2016 15:03	WG924513

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	71.2		1.52	1	11/08/2016 01:10	WG923867

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.3		1	11/08/2016 15:03	WG924513

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	114		1.31	1	11/08/2016 01:13	WG923867

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	74.8		1	11/08/2016 15:03	WG924513

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	75.3		1.34	1	11/08/2016 11:02	WG923870

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	65.5		1	11/08/2016 11:57	WG924514

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	43.7		1.53	1	11/08/2016 11:10	WG923870

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.5		1	11/08/2016 11:57	WG924514

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	78.7		1.17	1	11/08/2016 11:13	WG923870

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	71.3		1	11/08/2016 11:57	WG924514

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	77.1		1.40	1	11/08/2016 11:16	WG923870

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.4		1	11/08/2016 11:57	WG924514

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	116		1.29	1	11/08/2016 11:18	WG923870

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.9		1	11/08/2016 11:57	WG924514

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	80.5		1.28	1	11/08/2016 11:21	WG923870

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	62.0		1	11/08/2016 11:57	WG924514

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	88.9		1.61	1	11/08/2016 11:24	WG923870

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	73.5		1	11/08/2016 11:57	WG924514

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	113		1.36	1	11/08/2016 12:42	WG923870

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.1		1	11/08/2016 11:57	WG924514

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	102		1.33	1	11/08/2016 11:29	WG923870

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	71.7		1	11/08/2016 11:57	WG924514

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	71.1		1.39	1	11/08/2016 11:32	WG923870

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	71.2		1	11/08/2016 11:57	WG924514

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	78.3		1.41	1	11/08/2016 11:35	WG923870

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	72.0		1	11/08/2016 11:41	WG924516

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	71.1		1.39	1	11/08/2016 02:25	WG923870

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	68.9		1	11/08/2016 11:41	WG924516

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	87.4		1.45	1	11/08/2016 02:28	WG923870

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.9		1	11/08/2016 11:41	WG924516

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	155		1.24	1	11/08/2016 02:31	WG923870

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.9		1	11/08/2016 11:41	WG924516

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	120		1.27	1	11/08/2016 02:33	WG923870

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	71.8		1	11/08/2016 11:41	WG924516

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	85.0		1.39	1	11/08/2016 02:36	WG923870

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	71.3		1	11/08/2016 11:41	WG924516

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	76.6		1.40	1	11/08/2016 02:39	WG923870

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.7		1	11/08/2016 11:41	WG924516

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	75.2		1.30	1	11/08/2016 02:42	WG923870

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	58.5		1	11/08/2016 11:41	WG924516

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	96.9	O1	1.71	1	11/08/2016 10:46	WG923870

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	74.3		1	11/08/2016 11:41	WG924516

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	97.8		1.35	1	11/08/2016 11:00	WG923870

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	74.1		1	11/08/2016 11:41	WG924516

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	76.6		1.35	1	11/08/2016 13:11	WG923871

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	66.6		1	11/08/2016 11:28	WG924518

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	83.6		1.50	1	11/08/2016 13:25	WG923871

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.0		1	11/08/2016 11:28	WG924518

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	66.7		1.27	1	11/08/2016 13:28	WG923871

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.0		1	11/08/2016 11:28	WG924518

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	109		1.32	1	11/08/2016 13:36	WG923871

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	54.4		1	11/08/2016 11:28	WG924518

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	133		1.84	1	11/08/2016 13:39	WG923871

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	72.2		1	11/08/2016 11:28	WG924518

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	124		1.38	1	11/08/2016 13:42	WG923871

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.5		1	11/08/2016 11:28	WG924518

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	127		1.32	1	11/08/2016 13:45	WG923871

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	66.9		1	11/08/2016 11:28	WG924518

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	103		1.49	1	11/08/2016 13:48	WG923871

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.2		1	11/08/2016 11:28	WG924518

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	73.7		1.33	1	11/08/2016 13:51	WG923871

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.2		1	11/08/2016 11:28	WG924518

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	91.2		1.30	1	11/08/2016 13:54	WG923871

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	53.0		1	11/08/2016 11:28	WG924518

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	111		1.89	1	11/08/2016 13:57	WG923871

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.6		1	11/08/2016 11:17	WG924519

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	112		1.31	1	11/08/2016 14:00	WG923871

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.6		1	11/08/2016 11:17	WG924519

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	118		1.27	1	11/08/2016 14:03	WG923871

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	63.6		1	11/08/2016 11:17	WG924519

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	143		1.57	1	11/08/2016 14:11	WG923871

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.3		1	11/08/2016 11:17	WG924519

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	196		1.08	1	11/08/2016 14:14	WG923871

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	51.9		1	11/08/2016 11:17	WG924519

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	105		1.93	1	11/08/2016 14:17	WG923871

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	71.3		1	11/08/2016 11:17	WG924519

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	94.2		1.40	1	11/08/2016 14:20	WG923871

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.0		1	11/08/2016 11:17	WG924519

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	103		1.30	1	11/08/2016 14:23	WG923871

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	73.7		1	11/08/2016 11:17	WG924519

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	216		1.36	1	11/08/2016 14:26	WG923871

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.6		1	11/08/2016 11:17	WG924519

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	240		1.23	1	11/08/2016 14:29	WG923871

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.7		1	11/08/2016 11:17	WG924519

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	273		1.22	1	11/08/2016 10:40	WG923872

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	64.8		1	11/08/2016 11:06	WG924520

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	128		1.54	1	11/08/2016 10:43	WG923872

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	71.2		1	11/08/2016 11:06	WG924520

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	124		1.40	1	11/08/2016 10:52	WG923872

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	73.6		1	11/08/2016 11:06	WG924520

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	101		1.36	1	11/08/2016 10:55	WG923872

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	68.8		1	11/08/2016 11:06	WG924520

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	134		1.45	1	11/08/2016 10:58	WG923872

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.6		1	11/08/2016 11:06	WG924520

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	126		1.21	1	11/08/2016 11:01	WG923872

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.8		1	11/08/2016 11:06	WG924520

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	180		1.21	1	11/08/2016 11:04	WG923872

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.4		1	11/08/2016 11:06	WG924520

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	84.0		1.13	1	11/08/2016 11:07	WG923872

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	71.0		1	11/08/2016 11:06	WG924520

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	174		1.41	1	11/08/2016 11:10	WG923872

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.4		1	11/08/2016 11:06	WG924520

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	172		1.29	1	11/08/2016 11:13	WG923872

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.6		1	11/08/2016 11:06	WG924520

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	176		1.29	1	11/08/2016 11:16	WG923872

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	70.5		1	11/08/2016 14:50	WG924656

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	118		1.42	1	11/08/2016 11:18	WG923872

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	55.4		1	11/08/2016 14:50	WG924656

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	238		1.81	1	11/08/2016 11:27	WG923872

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	64.2		1	11/08/2016 14:50	WG924656

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	264		1.56	1	11/08/2016 11:30	WG923872

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.7		1	11/08/2016 14:50	WG924656

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	50.9		1.21	1	11/08/2016 11:33	WG923872

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.7		1	11/08/2016 14:50	WG924656

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	66.0		1.17	1	11/08/2016 11:36	WG923872

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.6		1	11/08/2016 14:50	WG924656

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	78.1		1.05	1	11/08/2016 11:39	WG923872

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	52.4		1	11/08/2016 14:50	WG924656

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	101		1.91	1	11/08/2016 11:42	WG923872

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	65.0		1	11/08/2016 14:50	WG924656

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	107		1.54	1	11/08/2016 11:45	WG923872

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	64.7		1	11/08/2016 14:50	WG924656

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	113		1.55	1	11/08/2016 10:26	WG923872

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	69.2		1	11/08/2016 14:50	WG924656

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	78.1		1.45	1	11/07/2016 20:47	WG924406

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	69.5		1	11/08/2016 14:41	WG924657

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	70.0		1.44	1	11/07/2016 20:50	WG924406

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.1		1	11/08/2016 14:41	WG924657

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	34.3		1.20	1	11/07/2016 20:53	WG924406

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.4		1	11/08/2016 14:41	WG924657

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	29.5		1.02	1	11/07/2016 20:56	WG924406

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	69.6		1	11/08/2016 14:41	WG924657

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	49.8		1.44	1	11/07/2016 20:59	WG924406

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	52.2		1	11/08/2016 14:41	WG924657

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	51.5		1.92	1	11/07/2016 20:19	WG924406

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.3		1	11/08/2016 14:41	WG924657

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	67.4		1.33	1	11/07/2016 21:02	WG924406

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	68.1		1	11/08/2016 14:41	WG924657

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	68.1		1.47	1	11/07/2016 21:05	WG924406

Method Blank (MB)

(MB) R3176643-1 11/08/16 09:18

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000100			

L870485-02 Original Sample (OS) • Duplicate (DUP)

(OS) L870485-02 11/08/16 09:18 • (DUP) R3176643-3 11/08/16 09:18

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	70.0	69.0	1	1.44		5

Laboratory Control Sample (LCS)

(LCS) R3176643-2 11/08/16 09:18

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	99.9	85.0-115	

Method Blank (MB)

(MB) R3176653-1 11/08/16 10:53

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000300			

L870485-14 Original Sample (OS) • Duplicate (DUP)

(OS) L870485-14 11/08/16 10:53 • (DUP) R3176653-3 11/08/16 10:53

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	72.1	72.6	1	0.692		5

Laboratory Control Sample (LCS)

(LCS) R3176653-2 11/08/16 10:53

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3176650-1 11/08/16 10:34

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000200			

L870485-24 Original Sample (OS) • Duplicate (DUP)

(OS) L870485-24 11/08/16 10:34 • (DUP) R3176650-3 11/08/16 10:34

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	84.3	84.1	1	0.256		5

Laboratory Control Sample (LCS)

(LCS) R3176650-2 11/08/16 10:34

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3176648-1 11/08/16 10:24

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000100			

L870485-40 Original Sample (OS) • Duplicate (DUP)

(OS) L870485-40 11/08/16 10:24 • (DUP) R3176648-3 11/08/16 10:24

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	71.2	71.6	1	0.502		5

Laboratory Control Sample (LCS)

(LCS) R3176648-2 11/08/16 10:24

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3176646-1 11/08/16 09:52

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L870485-46 Original Sample (OS) • Duplicate (DUP)

(OS) L870485-46 11/08/16 09:52 • (DUP) R3176646-3 11/08/16 09:52

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	61.6	59.6	1	3.37		5

Laboratory Control Sample (LCS)

(LCS) R3176646-2 11/08/16 09:52

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3176645-1 11/08/16 09:40

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L870485-52 Original Sample (OS) • Duplicate (DUP)

(OS) L870485-52 11/08/16 09:40 • (DUP) R3176645-3 11/08/16 09:40

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	77.3	79.3	1	2.55		5

Laboratory Control Sample (LCS)

(LCS) R3176645-2 11/08/16 09:40

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3176644-1 11/08/16 09:29

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000100			

L870485-66 Original Sample (OS) • Duplicate (DUP)

(OS) L870485-66 11/08/16 09:29 • (DUP) R3176644-3 11/08/16 09:29

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	77.0	77.0	1	0.0167		5

Laboratory Control Sample (LCS)

(LCS) R3176644-2 11/08/16 09:29

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3176696-1 11/08/16 15:03

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000300			

L870485-81 Original Sample (OS) • Duplicate (DUP)

(OS) L870485-81 11/08/16 15:03 • (DUP) R3176696-3 11/08/16 15:03

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	74.8	74.4	1	0.540		5

Laboratory Control Sample (LCS)

(LCS) R3176696-2 11/08/16 15:03

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3176669-1 11/08/16 11:57

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000700			

L870485-88 Original Sample (OS) • Duplicate (DUP)

(OS) L870485-88 11/08/16 11:57 • (DUP) R3176669-3 11/08/16 11:57

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	73.5	76.7	1	4.22		5

Laboratory Control Sample (LCS)

(LCS) R3176669-2 11/08/16 11:57

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	99.9	85.0-115	

Method Blank (MB)

(MB) R3176667-1 11/08/16 11:41

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L870485-97 Original Sample (OS) • Duplicate (DUP)

(OS) L870485-97 11/08/16 11:41 • (DUP) R3176667-3 11/08/16 11:41

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	71.3	70.1	1	1.62		5

Laboratory Control Sample (LCS)

(LCS) R3176667-2 11/08/16 11:41

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	99.9	85.0-115	

Method Blank (MB)

(MB) R3176660-1 11/08/16 11:28

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000400			

L870485-104 Original Sample (OS) • Duplicate (DUP)

(OS) L870485-104 11/08/16 11:28 • (DUP) R3176660-3 11/08/16 11:28

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	76.0	74.4	1	2.15		5

Laboratory Control Sample (LCS)

(LCS) R3176660-2 11/08/16 11:28

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3176659-1 11/08/16 11:17

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000700			

L870485-117 Original Sample (OS) • Duplicate (DUP)

(OS) L870485-117 11/08/16 11:17 • (DUP) R3176659-3 11/08/16 11:17

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	71.3	72.1	1	1.15		5

Laboratory Control Sample (LCS)

(LCS) R3176659-2 11/08/16 11:17

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3176655-1 11/08/16 11:06

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000500			

L870485-127 Original Sample (OS) • Duplicate (DUP)

(OS) L870485-127 11/08/16 11:06 • (DUP) R3176655-3 11/08/16 11:06

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	82.8	85.4	1	3.09		5

Laboratory Control Sample (LCS)

(LCS) R3176655-2 11/08/16 11:06

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3176680-1 11/08/16 14:50

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000600			

L870485-134 Original Sample (OS) • Duplicate (DUP)

(OS) L870485-134 11/08/16 14:50 • (DUP) R3176680-3 11/08/16 14:50

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	64.2	65.6	1	2.08		5

Laboratory Control Sample (LCS)

(LCS) R3176680-2 11/08/16 14:50

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3176678-1 11/08/16 14:41

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000600			

L870467-12 Original Sample (OS) • Duplicate (DUP)

(OS) L870467-12 11/08/16 14:41 • (DUP) R3176678-3 11/08/16 14:41

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	78.8	78.3	1	0.655		5

Laboratory Control Sample (LCS)

(LCS) R3176678-2 11/08/16 14:41

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3176342-1 11/07/16 14:19

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chromium	U		0.14	1.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3176342-2 11/07/16 14:22 • (LCSD) R3176342-3 11/07/16 14:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chromium	100	101	97.0	101	97	80-120			4	20

L870485-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L870485-01 11/07/16 14:27 • (MS) R3176342-6 11/07/16 14:35 • (MSD) R3176342-7 11/07/16 14:38

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium	165	59.0	217	221	96	98	1	75-125			2	20

Method Blank (MB)

(MB) R3176313-1 11/07/16 12:25

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chromium	U		0.14	1.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3176313-2 11/07/16 12:28 • (LCSD) R3176313-3 11/07/16 12:30

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chromium	100	106	103	106	103	80-120			3	20

L870485-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L870485-21 11/07/16 12:33 • (MS) R3176313-6 11/07/16 12:41 • (MSD) R3176313-7 11/07/16 12:43

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium	152	60.5	209	214	97	101	1	75-125			2	20

Method Blank (MB)

(MB) R3176312-1 11/07/16 10:57

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chromium	U		0.14	1.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3176312-2 11/07/16 11:00 • (LCSD) R3176312-3 11/07/16 11:02

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chromium	100	106	95.2	106	95	80-120			11	20

L870485-41 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L870485-41 11/07/16 11:05 • (MS) R3176312-6 11/07/16 11:13 • (MSD) R3176312-7 11/07/16 11:15

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium	143	77.1	205	218	90	99	1	75-125			6	20

Method Blank (MB)

(MB) R3176350-1 11/07/16 23:54

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chromium	U		0.14	1.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3176350-2 11/07/16 23:56 • (LCSD) R3176350-3 11/07/16 23:59

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chromium	100	97.3	101	97	101	80-120			4	20

L870485-61 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L870485-61 11/08/16 00:01 • (MS) R3176350-6 11/08/16 00:09 • (MSD) R3176350-7 11/08/16 00:12

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium	151	68.4	212	212	95	95	1	75-125			0	20

Method Blank (MB)

(MB) R3176462-1 11/08/16 10:39

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chromium	U		0.14	1.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3176462-2 11/08/16 10:41 • (LCSD) R3176462-3 11/08/16 10:44

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chromium	100	96.5	99.8	97	100	80-120			3	20

L870485-99 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L870485-99 11/08/16 10:46 • (MS) R3176462-6 11/08/16 10:54 • (MSD) R3176462-7 11/08/16 10:57

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium	171	96.9	270	274	101	104	1	75-125			1	20

Method Blank (MB)

(MB) R3176626-1 11/08/16 13:03

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
Chromium	U		0.14	1.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3176626-2 11/08/16 13:05 • (LCSD) R3176626-3 11/08/16 13:08

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Chromium	100	102	100	102	100	80-120			2	20

L870485-101 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L870485-101 11/08/16 13:11 • (MS) R3176626-6 11/08/16 13:19 • (MSD) R3176626-7 11/08/16 13:22

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chromium	135	76.6	205	205	95	95	1	75-125			0	20

Method Blank (MB)

(MB) R3176456-1 11/08/16 10:18

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chromium	U		0.14	1.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3176456-2 11/08/16 10:21 • (LCSD) R3176456-3 11/08/16 10:23

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chromium	100	102	102	102	102	80-120			0	20

L870485-140 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L870485-140 11/08/16 10:26 • (MS) R3176456-6 11/08/16 10:35 • (MSD) R3176456-7 11/08/16 10:37

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium	155	113	259	274	95	105	1	75-125			6	20

Method Blank (MB)

(MB) R3176346-1 11/07/16 20:11

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
Chromium	U		0.14	1.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3176346-2 11/07/16 20:13 • (LCSD) R3176346-3 11/07/16 20:16

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Chromium	100	101	101	101	101	80-120			1	20

L870485-146 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L870485-146 11/07/16 20:19 • (MS) R3176346-6 11/07/16 20:27 • (MSD) R3176346-7 11/07/16 20:30

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chromium	192	51.5	248	257	103	107	1	75-125			3	20

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Rec.	Recovery.

Qualifier	Description
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.

ACCREDITATIONS & LOCATIONS

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

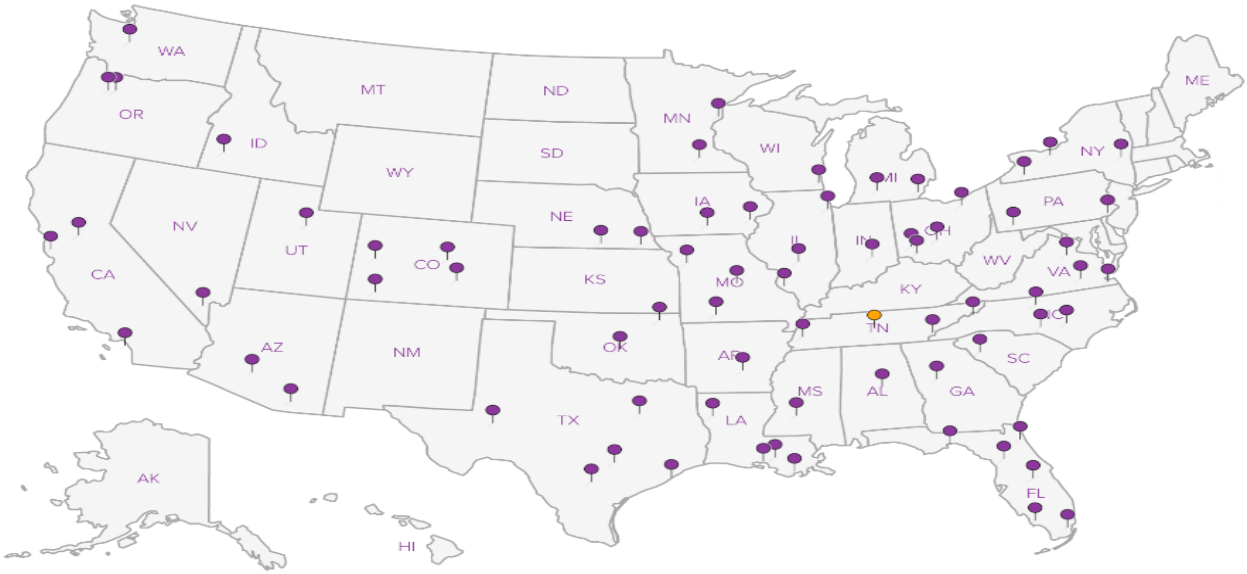
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon
Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:
Collected by (signature):
Packed on Ice: N Y

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
DDOVB5:0	Grab	SS		10/21/16		1		X		~~L870485-~~
↓ -135:18	Grab	SS				1		X		
DDOW10:0	Grab	SS				1		X		L870485-01
↓ :18	Grab	SS				1		X		02
↓ :30	Grab	SS				1		X		03
OBA115:0	Grab	SS				1		X		04
↓ :18	Grab	SS				1		X		05
↓ :30	Grab	SS				1		X		06
DUP-87:0	Grab	SS				1		X		07

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Chain of Custody Page 21 of 40

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10/21/16	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____
Temp: Amb
Bottles Received: 358
Date: 10-22-16
Time: 900
Condition: SW7 Lacs I (lab use only)
pH Checked:
NCF:

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon
Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:
Collected by (signature):
Packed on Ice: N Y

Rush? (Lab MUST Be Notified)
____ Same Day..... 200%
____ Next Day..... 100%
____ Two Day..... 50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
DDB-87:18	Grab	SS		10/19/16		1		X		~~L870~~ 08
↓ -87:30	Grab	SS				1		X		09
DDC-70:0	Grab	SS				1		X		10
↓ -70:18	Grab	SS				1		X		11
↓ -70:30	Grab	SS				1		X		12
DDF-75:0	Grab	SS				1		X		
↓ -75:18	Grab	SS				1	X			~~14~~
↓ -75:30	Grab	SS				1	X			~~15~~
DDF-94:0	Grab	SS		↓		1	X			~~16~~

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Chain of Custody Page 02 of 10

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode: portenvtx (lab use only)
Template/Prelogin
Shipped Via: L870485

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10/21/16	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
			Gary Wann

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____
Temp: Amb
Bottles Received: 158
Date: 10-22-16
Time: 900

Condition: (lab use only) SW7 cocs2
pH Checked:
NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon
Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:
Collected by (signature):
Packed on Ice: N

Rush? (Lab MUST Be Notified)
___ Same Day.....200%
___ Next Day.....100%
___ Two Day.....50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
00F-94:18	Grab	SS		10/21/16		1		X		~~L870~~
↓ -94:30	Grab	SS				1		X		
00G130:0	Grab	SS				1		X		13
↓ :18	Grab	SS				1		X		14
↓ :30	Grab	SS				1		X		15
~~00H130:0~~ 00I145:0	Grab	SS				1		X		
~~↓ 130:18~~ ↓ 145:18	Grab	SS				1		X		
~~↓ 130:30~~ ↓ 145:30	Grab	SS				1		X		
00J15:0	Grab	SS		↓		1		X		16

Chain of Custody Page 23 of 40

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode: portenvtx (lab use only)
Template/Prelogin
Shipped Via: L870485

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

pH _____ Temp _____
Flow _____ Other _____

Remarks:

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10/21/16	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
			Amy Wann

Samples returned via: ☐ FedEx ☐ Courier ☐ UPS ☐ _____
Temp: Amb
Bottles Received: 358
Date: 10-22-16
Time: 900
Condition: (lab use only) JW7 COC SI
pH Checked:
NCF:

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon
Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:
Collected by (signature):
Packed on Ice: N

Rush? (Lab MUST Be Notified)
___ Same Day..... 200%
___ Next Day..... 100%
___ Two Day..... 50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
00J15:18	Grab	SS		10/19/16		1		X		17
↓ :30	Grab	SS				1		X		18
00J32:0	Grab	SS				1		X		
↓ :18	Grab	SS				1		X		
↓ :30	Grab	SS				1		X		
00J45:0	Grab	SS				1		X		
00J45:18	Grab	SS				1		X		
00J45:30	Grab	SS				1		X		
00K16:0	Grab	SS		↓		1		X		19

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Chain of Custody Page 24 of 40

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode: portenvtx (lab use only)
Template/Prelogin:
Shipped Via: L870486

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____
Condition: (lab use only) OK
Temp: Amb
Bottles Received: 558
Date: 10.22.16
Time: 900
pH Checked:
NCF:

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:

Collected by (signature):
Packed on Ice N

Rush? (Lab MUST Be Notified)
____ Same Day..... 200%
____ Next Day..... 100%
____ Two Day..... 50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 25 of 40

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via: L870409

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
00W116:12	Grab	SS		10/19/16		1		X		20
00L52:0	Grab	SS				1		X		
↓ :18	Grab	SS				1		X		
↓ :30	Grab	SS				1		X		
00L72:0	Grab	SS				1		X		
↓ :18	Grab	SS				1		X		
↓ :30	Grab	SS				1		X		
00M89:0	Grab	SS				1	X			
↓ :18	Grab	SS		↓		1	X			

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ FedEx ☐ Courier ☐ UPS ☐	Condition: (lab use only)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb / Bottles Received: 35	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 900	pH Checked: / NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon
Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:
Collected by (signature):
Packed on Ice N Y

Rush? (Lab MUST Be Notified)
___ Same Day.....200%
___ Next Day.....100%
___ Two Day.....50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
BDN89:30	Grab	SS		10/20/16		1	X			870865-64
BDN118:0	Grab	SS				1	X			70
:18	Grab	SS				1	X			71
:30	Grab	SS				1	X			72
CON-55:0	Grab	SS				1		X		21
:18	Grab	SS				1		X		22
BDP125:0	Grab	SS				1	X			77
:18	Grab	SS				1	X			94
:30	Grab	SS				1	X			95

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other:

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Chain of Custody Page 2 of 2

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via: LS70485

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____
Temp: Amb
Bottles Received: 32
Date: 10-22-16
Time: 9a
Condition: JW7 CoCsI (lab use only)
pH Checked:
NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon
Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:
Collected by (signature):
Packed on Ice N

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
OOP-99:0	Grab	SS		10/9/16		1	X			22986-76
↓ :15	Grab	SS				1	X			~~77~~
↓ :30	Grab	SS				1	X			~~78~~
OOQ 109:0	Grab	SS				1	X	X		~~79~~
↓ :12	Grab	SS				1	X	X		~~80~~
OOQ B1:0	Grab	SS				1	X	X		23
↓ :18	Grab	SS				1	X	X		24
↓ :30	Grab	SS				1	X	X		25
OOR-61:0	Grab	SS		↓		1	X			~~81~~

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Chain of Custody Page 2 of 2

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via: L870485

Relinquished by: (Signature)	Date: 10/21/16	Time: 1300	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____
Temp: Amb
Bottles Received: 338
Date: 10-22-16
Time: 900
Condition: (lab use only) SW7 cass
pH Checked:
NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon
Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:
Collected by (signature):
Packed on Ice: N

Rush? (Lab MUST Be Notified)
___ Same Day.....200%
___ Next Day.....100%
___ Two Day.....50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 2 of 4

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via: L870485

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
OOR-61 :18	Grab	SS		10/19/16		1	X			~~L870485 01~~
↓ -61 :30	Grab	SS		↓		1	X			~~22~~
OOS-96 :0	Grab	SS		10/20/16		1	X			~~24~~
↓ :18	Grab	SS				1	X			~~25~~
↓ :30	Grab	SS				1	X			~~26~~
OOT-43 :0	Grab	SS				1		X		26
↓ :18	Grab	SS				1		X		27
↓ :30	Grab	SS				1		X		28
OOTQ1 :0	Grab	SS		↓		1		X		29

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____
Flow _____ Other _____

Remarks:

	Date	Time		
Relinquished by: (Signature)	10/21/16	1200	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb / Bottles Received: 35
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 900

Condition: JW7 cc53 (lab use only)
pH Checked:
NCF: Y

Portnoy Environmental 1414 W. Sam Houston Pkwy N. Suite 170 Houston, TX 77043	Alternate billing information: Aaron Galer Northwest Pipeline Report to: NWPL Team Email to: ahopkins@pei-tx.com	Chain of Custody Page 37 of 40 Prepared by: ENVIRONMENTAL SCIENCE CORP. 12065 Lebanon Road Mt. Juliet, TN 37122 Phone (615) 758-5858 Phone (800) 767-5859 FAX (615) 758-5859

Project Description: Mt. Vernon CS	City/State Collected: Mt. Vernon	CoCode: portenvtx (lab use only)
Phone: 713-805-2994 FAX: 832-295-6404	Client Project #: Mt. Vernon	ESC Key: PORTNOYENV-WAHG	Template/Prelogin
Collected by: Alan Hopkins	Site/Facility ID#: Mt. Vernon	P.O.#:	Shipped Via: L870485

Collected by (signature):

Packed on Ice: N Y

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%

Date Results Needed:

Email? __No ✓Yes
FAX? ✓No __Yes

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
ØØT91:18	Grab	SS		10/20/16		1		X		~~L7860~~ 30
↓ :30	Grab	SS				1		X		31
ØØV38:0	Grab	SS				1		X		32
↓ :18	Grab	SS				1		X		33
↓ :30	Grab	SS				1		X		34
ØØV105:0	Grab	SS				1		X		35
:18	Grab	SS				1		X		36
↓ :30	Grab	SS				1		X		37
ØØW16:0	Grab	SS		↓		1		X		38

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date: 10/21/16	Time: 1200	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____	Condition: JW7 cocSI	(lab use only)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb	Bottles Received: 350	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) Jay Wann	Date: 10-22-16	Time: 910	pH Checked: NCF:

Portnoy Environmental 1414 W. Sam Houston Pkwy N. Suite 170 Houston, TX 77043	Alternate billing information: Aaron Galer Northwest Pipeline Report to: NWPL Team Email to: ahopkins@pei-tx.com	Chain of Custody Page 30 of 40 Prepared by: ENVIRONMENTAL SCIENCE CORP. 12065 Lebanon Road Mt. Juliet, TN 37122 Phone (615) 758-5858 Phone (800) 767-5859 FAX (615) 758-5859

Project Description: Mt. Vernon CS | City/State Collected: Mt. Vernon

Phone: 713-805-2994 | FAX: 832-295-6404 | Client Project #: Mt. Vernon | ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins | Site/Facility ID#: Mt. Vernon | P.O.#:

Collected by (signature): | Packed on Ice N Y

Rush? (Lab MUST Be Notified)
____ Same Day..... 200%
____ Next Day..... 100%
____ Two Day..... 50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

CoCode: portenvtx (lab use only)
Template/Prelogin
Shipped Via: L870485

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
00W16:18	Grab	SS		10/20/16		1		X		~~L870485~~ 39
↓ :30	Grab	SS				1		X		40
00W38:0	Grab	SS				1		X		41
:18	Grab	SS				1		X		42
↓ :30	Grab	SS				1		X		43
00W97:0	Grab	SS				1	X			~~44~~
:18	Grab	SS				1	X			~~45~~
↓ :30	Grab	SS				1	X			~~46~~
00W148:0	Grab	SS		↓		1		X		

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____ pH _____ Temp _____

Remarks: Flow _____ Other _____

Relinquished by: (Signature)	Date: 10/21/16	Time: 1200	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____	Condition: (lab use only)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb / Bottles Received: 358	JW1 COC SJ
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 900	pH Checked: / NCF: X

Portnoy Environmental 1414 W. Sam Houston Pkwy N. Suite 170 Houston, TX 77043	Alternate billing information: Aaron Galer Northwest Pipeline Report to: NWPL Team Email to: ahopkins@pei-tx.com	Analysis/Container/Preservative	Chain of Custody Page 3 of 4 Prepared by: ENVIRONMENTAL SCIENCE CORP. 12065 Lebanon Road Mt. Juliet, TN 37122 Phone (615) 758-5858 Phone (800) 767-5859 FAX (615) 758-5859

Project Description: Mt. Vernon CS	City/State Collected: Mt. Vernon		
Phone: 713-805-2994 FAX: 832-295-6404	Client Project #: Mt. Vernon	ESC Key: PORTNOYENV-WAHG	
Collected by: Alan Hopkins	Site/Facility ID#: Mt. Vernon	P.O.#:	
Collected by (signature): CH Packed on Ice: N Y	Rush? (Lab MUST Be Notified) ___ Same Day.....200% ___ Next Day.....100% ___ Two Day.....50%	Date Results Needed: Email? __No ✓Yes FAX? ✓No __Yes	No. of Cntrs

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
DOW 148 :18	Grab	SS		10/21/16		1		X		~~[illegible]~~
↓ :30	Grab	SS				1		X		-
DOY4 :0	Grab	SS				1		X		44
↓ :18	Grab	SS				1		X		45
↓ :30	Grab	SS				1		X		46
DOZ 05 :0	Grab	SS				1		X		47
:18	Grab	SS				1	X			~~40~~
[redacted] OA33 :0	Grab	SS				1	X	X		~~4~~
↓ :18	Grab	SS		↓		1		X		48

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via: L870485

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____ pH _____ Temp _____

Remarks: Flow _____ Other _____

Relinquished by: (Signature)	Date: 10/21/16	Time: 1500	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐	Condition: (lab use only) JW cooler
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb / Bottles Received: 3	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 9a	pH Checked: / NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:

Collected by (signature):
Packed on Ice: N

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
0A 13:30	Grab	SS		10/20/16		1		X		~~[illegible]~~ 49
0A 23:0	Grab	SS				1	X			~~48~~
↓ :18	Grab	SS				1	X			~~47~~
↓ :30	Grab	SS				1	X			~~46~~
0A 45:0	Grab	SS				1		X		50
↓ :18	Grab	SS				1		X		51
↓ :30	Grab	SS				1		X		52
0A 55:0	Grab	SS				1		X		53
↓ :18	Grab	SS		↓		1		X		54

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____	Condition: (lab use only)
	10/21/16	1200			JW 10C55
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb / Bottles Received: 518	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 940	pH Checked: / NCF: X

Chain of Custody Page 3 of 3

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode: portenvtx (lab use only)
Template/Prelogin
Shipped Via: LB70485

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team

Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS

City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404

Client Project #: Mt. Vernon

ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins

Site/Facility ID#: Mt. Vernon

P.O.#:

Collected by (signature):

Packed on Ice: N

Rush? (Lab MUST Be Notified)
___ Same Day..... 200%
___ Next Day..... 100%
___ Two Day..... 50%

Date Results Needed:

Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
0A55:30	Grab	SS		10/20/16		1		X		46266 55
0A78:0	Grab	SS				1		X		56
↓ :18	Grab	SS				1		X		57
↓ :30	Grab	SS				1		X		58
0B67:0	Grab	SS				1		X		59
↓ :18	Grab	SS				1		X		60
0C34:0	Grab	SS				1	X			~~45~~
↓ :18	Grab	SS				1	X			~~46~~
↓ :30	Grab	SS		↓		1	X			~~47~~

Chain of Custody Page 33 of 40

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
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Phone (800) 767-5859
FAX (615) 758-5859

CoCode: portenvtx (lab use only)
Template/Prelogin:
Shipped Via: LB 70485

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ FedEx ☐ Courier ☐ UPS ☐ _____	Condition: (lab use only)
	10/21/16	1200			SW7 CACSZ
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: AMb	Bottles Received: 538
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16	Time: 900
				pH Checked:	NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon
Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:
Collected by (signature):
Packed on Ice: N

Rush? (Lab MUST Be Notified)
___ Same Day..... 200%
___ Next Day..... 100%
___ Two Day..... 50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
OF59:18	Grab	SS		10/20/16		1	X			~~167860-116~~
↓ :30	Grab	SS				1	X			~~117~~
OF74:0	Grab	SS				1	X			~~118~~
↓ :18	Grab	SS				1	X			~~119~~
↓ :30	Grab	SS		↓		1	X			~~120~~
OH-45:0	Grab	SS		10/18/16		1		X		61
↓ :18	Grab	SS				1		X		62
↓ :30	Grab	SS				1		X		63
OJ-52:0	Grab	SS		↓		1	X			~~124~~

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10/21/16	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
			Greg Dean

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____
Temp: Amb
Bottles Received: 358
Date: 10-22-16
Time: 900

Condition: (lab use only) JW1 COC SI
pH Checked:
NCF: X

Chain of Custody Page 36 of 46

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
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Phone (800) 767-5859
FAX (615) 758-5859

CoCode: portenvtx (lab use only)
Template/Prelogin
Shipped Via: L870485

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon
Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:
Collected by (signature):
Packed on Ice: N
Rush? (Lab MUST Be Notified)
___ Same Day..... 200%
___ Next Day..... 100%
___ Two Day..... 50%
Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 3 of 4

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode: portenvtx (lab use only)
Template/Prelogin
Shipped Via: LB70485

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
OJ-52 :18	Grab	SS		10/18/16		1	X			~~B470-71~~
↓ :30	Grab	SS				1	X			~~123~~
OM128 :0	Grab	SS				1	X			~~124~~
↓ :18	Grab	SS				1	X			~~125~~
↓ :30	Grab	SS				1	X			~~126~~
OM134 :0	Grab	SS				1		X		64
↓ :18	Grab	SS				1		X		65
↓ :30	Grab	SS				1		X		66
0145 :0	Grab	SS		↓		1		X		

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐	Condition: (lab use only)
	10/20/16	1200			SW cooler
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb	Bottles Received: 358
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16	Time: 900
				pH Checked:	NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pel-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:

Collected by (signature):
Packed on Ice N

Rush? (Lab MUST Be Notified)
___ Same Day.....200%
___ Next Day.....100%
___ Two Day.....50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 25 of 40

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
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Phone (800) 767-5859
FAX (615) 758-5859

CoCode: portenvtx (lab use only)
Template/Prelogin
Shipped Via: L870485

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
00145:18	Grab	SS		10/18/16		1		X		66986
↓ :30	Grab	SS				1		X		
05-47:0	Grab	SS				1		X		67
:18	Grab	SS				1		X		68
↓ :30	Grab	SS				1		X		69
05-58:0	Grab	SS				1	X			77
:18	Grab	SS				1	X			72
↓ :30	Grab	SS				1	X			124
0w-33:0	Grab	SS		↓		1		X		

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____	Condition: (lab use only)
	10/21/16	1200			JW cocs2
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb / Bottles Received: 35	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 900	pH Checked: / NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon
Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:
Collected by (signature):
Packed on Ice: N

Rush? (Lab MUST Be Notified)
___ Same Day..... 200%
___ Next Day..... 100%
___ Two Day..... 50%
Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
OW-33:18	Grab	SS		10/18/16		1		X		70
↓ :30	Grab	SS				1		X		71
OX-54:0	Grab	SS				1		X		72
:18	Grab	SS				1		X		73
↓ :30	Grab	SS				1		X		74
OZ121:0	Grab	SS				1		X		75
:18	Grab	SS				1		X		76
↓ :30	Grab	SS				1		X		
AA-70:0	Grab	SS		↓		1		X		

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10/21/16	1700	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
			Jay Denn

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____
Temp: Amb
Bottles Received: 358
Date: 10-22-16
Time: 900

Condition: (lab use only) JW7 COC#1
pH Checked:
NCF:

Chain of Custody Page 34 of 40

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode: portenvtx (lab use only)
Template/Prelogin
Shipped Via: L870485

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Analysis/Container/Preservative

Chain of Custody Page 4 of 4

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon
Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via: L870485

Collected by (signature):
Packed on Ice N Y

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%

Date Results Needed:
Email? ___No ✓Yes
FAX? ✓No ___Yes

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
AA-76:10	Grab	SS		10/18/16		1		X		870860-77
↓ :30	Grab	SS				1		X		78
AC-81:0	Grab	SS				1	X			~~79~~
↓ :18	Grab	SS				1	X			~~80~~
↓ :30	Grab	SS				1	X	X		~~81~~
AC124:0	Grab	SS				1		X		
↓ :18	Grab	SS		↓		1				
	Grab	SS				1				
	Grab	SS				1				

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐	Condition: (lab use only)
	10/21/16	1200			JW1
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb / Bottles Received: 358	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 900	pH Checked: / NCF: X

10-085 10-084 10-083 10-082 10-081 10-080

F163

Chain of Custody Page 1 of 40

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team

Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS

City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404

Client Project #: Mt. Vernon

ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins

Site/Facility ID#: Mt. Vernon

P.O.#:

Collected by (signature):

Packed on Ice: N

Rush? (Lab MUST Be Notified)
____ Same Day 200%
____ Next Day 100%
____ Two Day 50%

Date Results Needed:

Email? __No ✓Yes
FAX? ✓No __Yes

CoCode: portenvtx (lab use only)
Template/Prelogin
Shipped Via: L870485

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
AD105:0	Grab	SS		10-18-16		1	X			278 01
:18	Grab	SS				1	X			02
:30	Grab	SS				1	X			03
AH-62:0	Grab	SS				1		X		
:18	Grab	SS				1		X		
:30	Grab	SS				1		X		
AI107:0	Grab	SS				1		X		79
:18	Grab	SS				1		X		80
:30	Grab	SS				1		X		81

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐	Condition: (lab use only)
	10-21-16	1200			JW1 CRSI
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb / Bottles Received: 358	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 9W	pH Checked: / NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon
Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:
Collected by (signature):
Packed on Ice N
Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%
Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 2 of 40

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via: LS 70485

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
AK-78:0	Grab	SS		10/18/16		1	X			~~476a-04~~
:18	Grab	SS				1	X			~~05~~
:30	Grab	SS				1	X			~~06~~
AL-72:0	Grab	SS				1		X		82
AL-72:18	Grab	SS				1		X		83
AP99:0	Grab	SS				1	X			~~07~~
:18	Grab	SS				1	X			~~08~~
:30	Grab	SS				1	X			~~09~~
AQ-79:0	Grab	SS				1	X			~~10~~

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☒ FedEx ☐ Courier ☐ UPS ☐	Condition:	(lab use only)
	10-21-16	1200				JW7 CC52
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: AMB / Bottles Received: 358 cn		
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 9W	pH Checked:	NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon
Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:
Collected by (signature):
Packed on Ice: N

Rush? (Lab MUST Be Notified)
___ Same Day..... 200%
___ Next Day..... 100%
___ Two Day..... 50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
AV-65:18	Grab	SS		10-18-16		1		X		83764
AV-65:30	Grab	SS				1		X		
AV 10%:0	Grab	SS				1		X		84
:18	Grab	SS				1		X		85
:30	Grab	SS				1		X		86
AV-74:0	Grab	SS				1		X		87
:18	Grab	SS				1		X		88
:30	Grab	SS				1		X		89
AZ-76:0	Grab	SS				1	X			4

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

pH ____ Temp ____
Flow ____ Other ____

Remarks:

Relinquished by: (Signature) Date: 10-21-16 Time: 1200 Received by: (Signature)
Relinquished by: (Signature) Date: Time: Received by: (Signature)
Relinquished by: (Signature) Date: Time: Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐
Temp: Amb
Bottles Received: 358
Date: 10-22-16
Time: 900
Condition: (lab use only) SW7 CCCSI
pH Checked:
NCF: X

Chain of Custody Page 4 of 10

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via: L870485

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:
Collected by (signature):
Packed on Ice: N (8)

Rush? (Lab MUST Be Notified)
____ Same Day..... 200%
____ Next Day..... 100%
____ Two Day..... 50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative: Chromium; HOLD

Chain of Custody Page 5 of 40

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
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Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode: portenvtx (lab use only)
Template/Prelogin
Shipped Via: L870485

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
AZ-76 ; 18	Grab	SS		10-18-16		1	X			867360-19
AZ-76 ; 30	Grab	SS		10-18-16		1	X			-A
BC-84 ; 0	Grab	SS				1	X			-15
↓ ; 18	Grab	SS				1	X			-16
↓ ; 30	Grab	SS				1	X			-17
BC93 ; 0	Grab	SS				1	X			-TT
↓ ; 18	Grab	SS				1	X			-TT
↓ ; 30	Grab	SS				1	X			-17
BD-77 ; 0	Grab	SS		↓		1		X		90

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10.21.16	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____
Temp: Amb
Bottles Received: 358
Condition: JW1 cool (lab use only)
Date: 10-22-16
Time: 941
pH Checked:
NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:

Collected by (signature):
Packed on Ice: N

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 6 of 40

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
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Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via: L870485

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
BD-77 : 18	Grab	SS		10-18-16		1		X		~~L870485-91~~
BD-77 : 30	Grab	SS				1		X		92
BF94 : 0	Grab	SS				1		X		93
↓ : 18	Grab	SS				1		X		94
↓ : 30	Grab	SS				1		X		95
BI-90 : 0	Grab	SS				1	X			~~75~~
↓ : 18	Grab	SS				1	X			~~76~~
↓ : 30	Grab	SS				1	X			~~77~~
BK-68 : 0	Grab	SS		↓		1		X		96

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐	Condition: (lab use only)
	10-21-16	1200		Temp: Amb / Bottles Received: 358	JW 1 cass
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)		
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 9W	pH Checked: / NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:
Collected by (signature):
Packed on Ice: N

Rush? (Lab MUST Be Notified)
___ Same Day.....200%
___ Next Day.....100%
___ Two Day.....50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
BK-68 ; 18	Grab	SS		10/18/16		1		X		[illegible]
BK-68 ; 30	Grab	SS				1		X		97
BM102 ; 0	Grab	SS				1		X		98
↓ ; 18	Grab	SS				1		X		
↓ ; 30	Grab	SS				1		X		
BR85 ; 0	Grab	SS				1	X			~~78~~
; 18	Grab	SS				1	X			~~79~~
; 30	Grab	SS				1	X			80
BR88 ; 0	Grab	SS		↓		1		X		94

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Chain of Custody Page 7 of 10

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
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Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via: LB70485

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10-21-16	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
			By Wam

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐

Temp:	Bottles Received:	Condition:	(lab use only)
Amb	358		JW1 COC SE

Date:	Time:	pH Checked:	NCF:
10-22-16	900		X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon
Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:
Collected by (signature):
Packed on Ice: N

Rush? (Lab MUST Be Notified)
___ Same Day.....200%
___ Next Day.....100%
___ Two Day.....50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
BR88 : 18	Grab	SS		10-18-16		1		X		~~46736~~ 101
BR88 : 30	Grab	SS				1		X		101
BX-85 : 0	Grab	SS				1	X			~~71~~
: 18	Grab	SS				1	X			~~72~~
: 30	Grab	SS				1	X			~~77~~
BY-75 : 0	Grab	SS				1		X		102
: 18	Grab	SS				1		X		103
: 30	Grab	SS				1		X		104
CD-87 : 0	Grab	SS				1	X			~~77~~

Chain of Custody Page 8 of 10

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via: LBT0485

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

pH _____ Temp _____
Flow _____ Other _____

Remarks:

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10-21-16	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
			Gary Dunn

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____
Condition: (lab use only) JW 1 COC 3
Temp: AMB
Bottles Received: 358
Date: 10-22-16
Time: 900
pH Checked:
NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team

Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS

City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404

Client Project #: Mt. Vernon

ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins

Site/Facility ID#: Mt. Vernon

P.O.#:

Collected by (signature):

Packed on Ice: N

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%

Date Results Needed:

Email? __No ✓Yes

FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
CD-87 ; 18	Grab	SS		10-18-16		1	X			104
CE 80 ; 0	Grab	SS		10-18-16		1		X		105
; 16	Grab	SS				1		X		106
; 30	Grab	SS				1		X		107
CE 84 ; 0	Grab	SS				1		X		
; 18	Grab	SS				1		X		
; 30	Grab	SS				1		X		
CE 94 ; 0	Grab	SS				1		X		
; 18	Grab	SS				1		X		

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Chain of Custody Page 9 of 40

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)

Template/Prelogin

Shipped Via: LB70485

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10-21-16	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
			Gary Nam

Samples returned via: ☒ FedEx ☐ Courier ☐ UPS ☐ _____

Temp: Amb | Bottles Received: 358

Date: 10-22-16 | Time: 9W

Condition: (lab use only) JW7 COC3

pH Checked: | NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:

Collected by (signature):
Packed on Ice: N (8)

Rush? (Lab MUST Be Notified)
___ Same Day..... 200%
___ Next Day..... 100%
___ Two Day..... 50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
CE 94 : 30	Grab	SS		10-18-16		1		X		107
CH-72 : 0	Grab	SS				1		X		
↓ : 18	Grab	SS				1		X		
↓ : 30	Grab	SS				1		X		
CH-78 : 0	Grab	SS				1		X		108
↓ : 18	Grab	SS				1		X		109
↓ : 30	Grab	SS				1		X		110
CJ-82 : 0	Grab	SS				1	X			76
↓ : 18	Grab	SS		↓		1	X			77

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks:

pH ____ Temp ____
Flow ____ Other ____

Chain of Custody Page 10 of 40

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode: portenvtx (lab use only)
Template/Prelogin
Shipped Via: L870485

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10-21-16	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ FedEx ☐ Courier ☐ UPS ☐ ____
Temp: Amb
Bottles Received: 33
Date: 10-22-16
Time: 900

Condition: (lab use only) SW7 COC52
pH Checked:
NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon
Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:
Collected by (signature):
Packed on Ice: N

Rush? (Lab MUST Be Notified)
___ Same Day.....200%
___ Next Day.....100%
___ Two Day.....50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
CM82:0	Grab	SS		10/18/16		1		X		111
:18	Grab	SS				1		X		112
:30	Grab	SS				1		X		113
CN-59:0	Grab	SS				1		X		
:18	Grab	SS				1		X		
:30	Grab	SS				1		X		
CO-67:0	Grab	SS				1		X		
:18	Grab	SS				1		X		
CO-73:0	Grab	SS				1		X		114

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Chain of Custody Page 11 of 40

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
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Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode: portenvtx (lab use only)
Template/Prelogin
Shipped Via: L876485

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10-21-16	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
			Spring

Samples returned via: ☒FedEx ☐Courier ☐UPS ☐_____
Temp: Amb
Bottles Received: 358
Date: 10-22-16
Time: 900
Condition: (lab use only) Jw1 COC5
pH Checked:
NCF:

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon
Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:
Collected by (signature):
Packed on Ice N
Rush? (Lab MUST Be Notified)
___ Same Day.....200%
___ Next Day.....100%
___ Two Day.....50%
Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 12 of 40

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
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Phone (615) 758-5858
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CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via: LB70485

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
CO-73 :18	Grab	SS		10-18-16		1		X		~~[illegible]~~ 115
CO-78 :0	Grab	SS				1	X			~~78~~
:18	Grab	SS				1	X			~~77~~
:30	Grab	SS				1	X			~~40~~
CS88 :0	Grab	SS				1		X		116
:18	Grab	SS				1		X		117
:30	Grab	SS				1		X		118
CU-65 :0	Grab	SS				1		X		
:18	Grab	SS				1		X		

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

pH _____ Temp _____
Flow _____ Other _____

Remarks:

	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	10-21-16	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) Tony Wann

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____
Condition: (lab use only) JW7 COCSI
Temp: Amb
Bottles Received: 358
Date: 10-22-16
Time: 900
pH Checked:
NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon
Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:
Collected by (signature):
Packed on Ice: N

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%
Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 17 of 40

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode: portenvtx (lab use only)
Template/Prelogin
Shipped Via: L870485

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
CU-65 : 30	Grab	SS		10-18-16		1		X		~~118~~
CU-71 : 0	Grab	SS		10-19-16		1		X		119
↓ : 18	Grab	SS				1		X		120
↓ : 30	Grab	SS				1		X		121
CU72 : 0	Grab	SS				1	X			~~11~~
↓ : 18	Grab	SS				1	X			~~11~~
↓ : 30	Grab	SS				1	X			~~11~~
CU-75 : 0	Grab	SS				1	X			~~11~~
↓ : 18	Grab	SS				1	X			~~11~~

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐UPS ☒FedEx ☐Courier ☐	Condition: (lab use only)
	10-21-16	1200			JW7 LOCS1
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb / Bottles Received: 558	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 9W	pH Checked: / NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team

Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS

City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404

Client Project #: Mt. Vernon

ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins

Site/Facility ID#: Mt. Vernon

P.O.#:

Collected by (signature):

Packed on Ice: N

Rush? (Lab MUST Be Notified)
____ Same Day..... 200%
____ Next Day..... 100%
____ Two Day..... 50%

Date Results Needed:

Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
CU-75:30	Grab	SS		10/19/16		1	X			~~L876485-41~~
CY75:0	Grab	SS				1		X		122
:18	Grab	SS				1		X		123
:30	Grab	SS				1		X		124
OE-59:0	Grab	SS				1		X		125
:18	Grab	SS				1		X		126
:30	Grab	SS				1		X		127
OE61:0	Grab	SS				1	X			~~49~~
:18	Grab	SS				1	X			~~49~~

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10-21-16	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
			Doug Dunn

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp:	Bottles Received:	Condition: (lab use only)
AMB	359	SW7 COC52
Date: 10-22-16	Time: 900	pH Checked: / NCF: X

Chain of Custody Page 14 of 40

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via: L876485

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon
Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:
Collected by (signature):
Packed on Ice N (Y)

Rush? (Lab MUST Be Notified)
____ Same Day..... 200%
____ Next Day..... 100%
____ Two Day..... 50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 15 of 40

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via: L870485

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
OE61:30	Grab	SS		10-19-16		1	Y			~~36936~~ 44
OE66:0	Grab	SS				1		X		128
:18	Grab	SS				1		X		129
:30	Grab	SS				1		X		130
OH-65:0	Grab	SS				1		X		131
OI57:0	Grab	SS				1		X		132
:18	Grab	SS				1		X		133
:30	Grab	SS				1		X		134
OI72:0	Grab	SS				1		X		

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐	Condition: (lab use only)
	10-21-16	1200			JW1
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb / Bottles Received: 358	Lot#2
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 900	pH Checked: / NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:

Collected by (signature):
Packed on Ice: N

Rush? (Lab MUST Be Notified)
____ Same Day..... 200%
____ Next Day..... 100%
____ Two Day..... 50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 16 of 46

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode: portenvtx (lab use only)
Template/Prelogin:
Shipped Via: LB76485

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
DI 72 : 18	Grab	SS		10-19-16		1		X		367864
; 30	Grab	SS				1		X		
E-63 : 0	Grab	SS				1	X			~~130~~
; 18	Grab	SS				1	X			~~131~~
; 30	Grab	SS				1	X			~~132~~
G-57 : 0	Grab	SS				1		X		135
: 18	Grab	SS				1		X		136
; 30	Grab	SS				1		X		137
G119 : 0	Grab	SS				1	X			~~138~~ 6

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐	Condition: (lab use only)
	10.21.16	1200			
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb	Bottles Received: 358
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16	Time: 9c

pH Checked: NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon
Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:
Collected by (signature):
Packed on Ice N
Rush? (Lab MUST Be Notified)
___ Same Day.....200%
___ Next Day.....100%
___ Two Day.....50%
Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 17 of 40

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via: LB70485

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
G119 : 18	Grab	SS		10-19-16		1	X			~~[illegible] 54~~
: 30	Grab	SS				1	X			~~55~~
G134 : 0	Grab	SS				1		X		138
↓ : 12	Grab	SS				1		X		139
J-41 : 0	Grab	SS				1		X		
: 18	Grab	SS				1		X		
: 30	Grab	SS				1		X		
N-67 : 0	Grab	SS				1	X			~~52~~
: 18	Grab	SS				1	X			~~57~~

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Flow _____ Other _____

Remarks:

Relinquished by: (Signature)	Date: 10-21-16	Time: 1200	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐	Condition:	(lab use only) 5w7 LOCSI
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: AMB / Bottles Received: 358		
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 900	pH Checked:	NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon
Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:
Collected by (signature):
Packed on Ice: N

Rush? (Lab MUST Be Notified)
___ Same Day.....200%
___ Next Day.....100%
___ Two Day.....50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
0120 : 0	Grab	SS		10-19-16		1		X		~~L870485~~ 140
↓ : 15	Grab	SS				1		X		141
↓ : 30	Grab	SS				1		X		142
5-61 : 0	Grab	SS				1		X		143
↓ : 18	Grab	SS				1		X		144
↓ : 30	Grab	SS				1		X		145
0111 : 0	Grab	SS				1	X			~~146~~
↓ : 18	Grab	SS				1	X			~~147~~
↓ : 30	Grab	SS				1	X			~~148~~

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Chain of Custody Page 18 of 40

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via: L870485

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10-21-16	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
			Ray Wem

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____
Temp: Amb
Bottles Received: 550
Date: 10-22-16
Time: 9a
Condition: (lab use only) JW1 cool
pH Checked:
NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon
Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:
Collected by (signature):
Packed on Ice: N (Y)

Rush? (Lab MUST Be Notified)
___ Same Day..... 200%
___ Next Day..... 100%
___ Two Day..... 50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 19 of 40

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode: portenvtx (lab use only)
Template/Prelogin
Shipped Via: L876485

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
X-50 : 0	Grab	SS		10/19/16		1		X		146
: 18	Grab	SS				1		X		
: 30	Grab	SS				1		X		
X-74 : 0	Grab	SS				1	X			4
: 18	Grab	SS				1	X			4
: 30	Grab	SS				1	X			4
Z114 : 0	Grab	SS				1		X		146
: 18	Grab	SS				1		X		147
: 24	Grab	SS				1		X		148

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10-21-16	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) Amy Wann

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____
Temp: Amb
Bottles Received: 3,58
Date: 10-22-16
Time: 9:00

Condition: (lab use only) JWT LOSI
pH Checked:
NCF: X

L870485

Archived Locations Request 11/2/16	Sample Depth (Inches)
000W10	0
000W10	18
000W10	30
00A115	0
00A115	18
00A115	30
00B-87	0
00B-87	18
00B-87	30
00C-70	0
00C-70	18
00C-70	30
00G130	0
00G130	18
00G130	30
00J15	0
00J15	18
00J15	30
00K116	0
00K116	12
00K116	30
00N-55	0
00N-55	18
00N-55	30
00Q109	30
00Q131	0
00Q131	18
00Q131	30
00T-43	0
00T-43	18
00T-43	30
00T91	0
00T91	18
00T91	30
00V28	0
00V28	18
00V28	30
00V105	0
00V105	18
00V105	30
00W16	0
00W16	18
00W16	30
00W38	0
00W38	18
00W38	30
00Y4	0
00Y4	18
00Y4	30
00Z125	0
0A133	18
0A133	30

L870485

0A45	0
0A45	18
0A45	30
0A55	0
0A55	18
0A55	30
0A78	0
0A78	18
0A78	30
0B67	0
0B67	18
0H-45	0
0H-45	18
0H-45	30
0M134	0
0M134	18
0M134	30
0S-47	0
0S-47	18
0S-47	30
0X-54	0
0X-54	18
0X-54	30
0Z121	0
0Z121	18
0Z121	30
AA-70	0
AA-70	18
AA-70	30
AI107	0
AI107	18
AI107	30
AL-72	0
AL-72	18
AU104	0
AU104	18
AU104	30
AV-74	0
AV-74	18
AV-74	30
BD-77	0
BD-77	18
BD-77	30
BF94	0
BF94	18
BF94	30
BK-68	0
BK-68	18
BK-68	30
BR88	0
BR88	18
BR88	30
BY-75	0
BY-75	18
BY-75	30

L870485

CE80	0
CE80	18
CE80	30
CH-78	0
CH-78	18
CH-78	30
CM82	0
CM82	18
CM82	30
CO-73	0
CO-73	18
CS88	0
CS88	18
CS88	30
CU-71	0
CU-71	18
CU-71	30
CY75	0
CY75	18
CY75	30
DE-59	0
DE-59	18
DE-59	30
DE66	0
DE66	18
DE66	30
DH-65	0
DI57	0
DI57	18
DI57	30
G-57	0
G-57	18
G-57	30
G134	0
G134	12
O120	0
O120	18
O120	30
S-61	0
S-61	18
S-61	30
Z114	0
Z114	18
Z114	24

L870485

Jeremy W. Watkins

From: Mark Beasley
Sent: Thursday, November 03, 2016 12:40 PM
To: Login
Cc: Tom Mellette
Subject: L867860 *PORTENVTX* hold samples
Attachments: L867860 Archived Locations.xlsx

Log the attached list of samples previously on hold for CRICP, TS, & EDD. Log as R5 due 11/10.

Thanks
Mark

From: Cynthia Moon [mailto:cynthiam@epi-wa.com]
Sent: Thursday, November 03, 2016 11:51 AM
To: Mark Beasley
Subject: FW: Additional Analysis: ESC Lab Sciences Report for MT. VERNON Mt. Vernon CS L867860

Hi Mark – I just received Tom's out of the office reply. Could you get these archived samples going for us?

From: Cynthia Moon <cynthiam@epi-wa.com>
Date: Wednesday, November 2, 2016 at 11:01 AM
To: Jarred Willis <tmellette@esclabsciences.com>
Cc: "Alan Hopkins - Portnoy (PRT)" <ahopkins@pei-tx.com>, Eric Koltes <erick@epi-wa.com>
Subject: Additional Analysis: ESC Lab Sciences Report for MT. VERNON Mt. Vernon CS L867860

Hi Tom – Would you please analyze the attached list of archived samples for Chromium? There are 151 samples. Please let me know if you have any questions.

Thank you.
Cynthia

Cynthia Moon – Environmental Scientist
ENVIRONMENTAL PARTNERS, INC.
1180 NW Maple Street, Suite 310 Issaquah, Washington 98027
425.395.0012 (direct) | 425.395.0010 (main) | cynthiam@epi-wa.com

Andy Vann

From: Tom Mellette
Sent: Monday, November 07, 2016 8:14 AM
To: Cynthia Moon; Mark Beasley
Cc: Jeremy W. Watkins; Andy Vann
Subject: RE: L867860 *PORTENVTX* hold samples

Cynthia – one more conflict with this re-log :

Note from LOGIN :
Mark/Tom after logging these off hold samples and being labeled we noticed that one of the samples was missing (AA70:30).

Login – be sure to scan this e-mail chain with the re-log # L870485

From: Cynthia Moon [mailto:cynthiam@epi-wa.com]
Sent: Friday, November 04, 2016 2:24 PM
To: Mark Beasley
Cc: Tom Mellette
Subject: Re: L867860 *PORTENVTX* hold samples

Oh dang. You are right. They were not collected in the field. Please move forward with the rest. Thanks for the heads up!

Cynthia

Cynthia Moon – Environmental Scientist
ENVIRONMENTAL PARTNERS, INC.
1180 NW Maple Street, Suite 310 Issaquah, Washington 98027
425.395.0012 (direct) | 425.395.0010 (main) | cynthiam@epi-wa.com

---

From: Mark Beasley <MBeasley@esclabsciences.com>
Date: Friday, November 4, 2016 at 12:21 PM
To: Cynthia Moon <cynthiam@epi-wa.com>
Cc: Jarred Willis <TMellette@esclabsciences.com>
Subject: FW: L867860 *PORTENVTX* hold samples

Cynthia:

See below... login says we did not receive the below samples:

00K116:30
00N-55:30
00Q109:30

Thanks
Mark

From: Jeremy W. Watkins
Sent: Friday, November 04, 2016 1:52 PM
To: Mark Beasley; Login
Cc: Tom Mellette
Subject: RE: L867860 *PORTENVTX* hold samples

Logged to L870485

Mark/Tom be advised that 3 of the samples the Client requested is not on the COC and they were not in the NCF for receiving not on COC. (00K116:30, 00N-55:30 and 00Q109:30)

From: Mark Beasley
Sent: Thursday, November 03, 2016 12:40 PM
To: Login
Cc: Tom Mellette
Subject: L867860 *PORTENVTX* hold samples

Log the attached list of samples previously on hold for CRICP, TS, & EDD. Log as R5 due 11/10.

Thanks
Mark

From: Cynthia Moon [mailto:cynthiam@epi-wa.com]
Sent: Thursday, November 03, 2016 11:51 AM
To: Mark Beasley
Subject: FW: Additional Analysis: ESC Lab Sciences Report for MT. VERNON Mt. Vernon CS L867860

Hi Mark – I just received Tom's out of the office reply. Could you get these archived samples going for us?

From: Cynthia Moon <cynthiam@epi-wa.com>
Date: Wednesday, November 2, 2016 at 11:01 AM
To: Jarred Willis <tmellette@esclabsciences.com>
Cc: "Alan Hopkins - Portnoy (PRT)" <ahopkins@pei-tx.com>, Eric Koltes <erick@epi-wa.com>
Subject: Additional Analysis: ESC Lab Sciences Report for MT. VERNON Mt. Vernon CS L867860

Hi Tom – Would you please analyze the attached list of archived samples for Chromium? There are 151 samples. Please let me know if you have any questions.

Thank you.
Cynthia

Cynthia Moon – Environmental Scientist
ENVIRONMENTAL PARTNERS, INC.
1180 NW Maple Street, Suite 310 Issaquah, Washington 98027
425.395.0012 (direct) | 425.395.0010 (main) | cynthiam@epi-wa.com

Notice: This communication and any attached files may contain privileged or other confidential information. If

ANALYTICAL REPORT

November 22, 2016

Portnoy Environmental

Sample Delivery Group:	L872857
Samples Received:	10/22/2016
Project Number:	MT. VERNON
Description:	Mt. Vernon CS
Site:	MT. VERNON
Report To:	NWPL Team 1414 W. Sam Houston Pkwy. N., Suite 170 Houston, TX 77043

Entire Report Reviewed By:

Tom Mellette
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

[1]Cp: Cover Page 1
[2]Tc: Table of Contents 2
[3]Ss: Sample Summary 3
[4]Cn: Case Narrative 6
[5]Sr: Sample Results 7
AP99:30 L872857-01 7
AQ-86:18 L872857-02 8
CO-78:0 L872857-03 9
CO-78:18 L872857-04 10
CU72:18 L872857-05 11
CU72:30 L872857-06 12
CU-75:0 L872857-07 13
CU-75:18 L872857-08 14
CU-75:30 L872857-09 15
DE61:18 L872857-10 16
X-74:18 L872857-11 17
X-74:30 L872857-12 18
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AP99:30 L872857-01 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG920272	1	10/25/16 10:27	10/25/16 10:50	KDW
Wet Chemistry by Method 3060A/7196A	WG926966	1	11/17/16 18:21	11/18/16 14:53	MHM

AQ-86:18 L872857-02 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG920273	1	10/25/16 10:15	10/25/16 10:25	KDW
Wet Chemistry by Method 3060A/7196A	WG926966	1	11/17/16 18:21	11/18/16 14:54	MHM

CO-78:0 L872857-03 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG920423	1	10/25/16 08:42	10/25/16 08:57	MEL
Wet Chemistry by Method 3060A/7196A	WG926966	1	11/17/16 18:21	11/18/16 14:56	MHM

CO-78:18 L872857-04 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG920423	1	10/25/16 08:42	10/25/16 08:57	MEL
Wet Chemistry by Method 3060A/7196A	WG926966	1	11/17/16 18:21	11/18/16 14:56	MHM

CU72:18 L872857-05 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG920423	1	10/25/16 08:42	10/25/16 08:57	MEL
Wet Chemistry by Method 3060A/7196A	WG926966	1	11/17/16 18:21	11/18/16 14:57	MHM

CU72:30 L872857-06 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG920423	1	10/25/16 08:42	10/25/16 08:57	MEL
Wet Chemistry by Method 3060A/7196A	WG926966	1	11/17/16 18:21	11/18/16 14:58	MHM

CU-75:0 L872857-07 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG920423	1	10/25/16 08:42	10/25/16 08:57	MEL
Wet Chemistry by Method 3060A/7196A	WG926966	1	11/17/16 18:21	11/18/16 14:59	MHM

CU-75:18 L872857-08 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG920423	1	10/25/16 08:42	10/25/16 08:57	MEL
Wet Chemistry by Method 3060A/7196A	WG926966	1	11/17/16 18:21	11/18/16 15:00	MHM

CU-75:30 L872857-09 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG920423	1	10/25/16 08:42	10/25/16 08:57	MEL
Wet Chemistry by Method 3060A/7196A	WG926966	1	11/17/16 18:21	11/18/16 15:00	MHM

DE61:18 L872857-10 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG920424	1	10/25/16 08:23	10/25/16 08:32	KDW
Wet Chemistry by Method 3060A/7196A	WG926966	1	11/17/16 18:21	11/18/16 15:00	MHM

X-74:18 L872857-11 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG920425	1	10/25/16 08:28	10/25/16 08:40	MEL
Wet Chemistry by Method 3060A/7196A	WG926966	1	11/17/16 18:21	11/18/16 15:00	MHM

X-74:30 L872857-12 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG920425	1	10/25/16 08:28	10/25/16 08:40	MEL
Wet Chemistry by Method 3060A/7196A	WG926967	1	11/21/16 10:30	11/21/16 15:42	MHM

00F-75:18 L872857-13 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG920425	1	10/25/16 08:28	10/25/16 08:40	MEL
Wet Chemistry by Method 3060A/7196A	WG926967	1	11/21/16 10:30	11/21/16 15:42	MHM

0F74:30 L872857-14 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG920420	1	10/25/16 10:09	10/25/16 10:17	MEL
Wet Chemistry by Method 3060A/7196A	WG926967	1	11/21/16 10:30	11/21/16 15:42	MHM

MV-AU28:18 L872857-15 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG920536	1	10/25/16 13:31	10/25/16 13:42	KDW
Wet Chemistry by Method 3060A/7196A	WG926967	1	11/21/16 10:30	11/21/16 15:44	MHM

MV-CG-89:0 L872857-16 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG920536	1	10/25/16 13:31	10/25/16 13:42	KDW
Wet Chemistry by Method 3060A/7196A	WG926967	1	11/21/16 10:30	11/21/16 15:45	MHM

MV-CO-88:18 L872857-17 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG920536	1	10/25/16 13:31	10/25/16 13:42	KDW
Wet Chemistry by Method 3060A/7196A	WG926967	1	11/21/16 10:30	11/21/16 15:46	MHM

MV-CP-80:0 L872857-18 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG920536	1	10/25/16 13:31	10/25/16 13:42	KDW
Wet Chemistry by Method 3060A/7196A	WG926967	1	11/21/16 10:30	11/21/16 15:46	MHM

MV-CP-80:12 L872857-19 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG920536	1	10/25/16 13:31	10/25/16 13:42	KDW
Wet Chemistry by Method 3060A/7196A	WG926967	1	11/21/16 10:30	11/21/16 15:47	MHM

MV-CQ-92:18 L872857-20 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

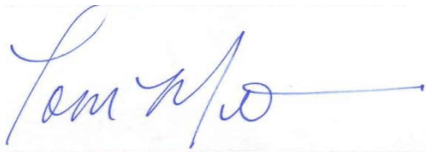
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG920537	1	10/25/16 16:14	10/25/16 16:27	MEL
Wet Chemistry by Method 3060A/7196A	WG926967	1	11/21/16 10:30	11/21/16 15:48	MHM

MV-CT-78:12 L872857-21 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG920537	1	10/25/16 16:14	10/25/16 16:27	MEL
Wet Chemistry by Method 3060A/7196A	WG926967	1	11/21/16 10:30	11/21/16 15:48	MHM

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Tom Mellette
Technical Service Representative

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.9		1	10/25/2016 10:50	WG920272

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium,Hexavalent	3.64		2.64	1	11/18/2016 14:53	WG926966

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.3		1	10/25/2016 10:25	WG920273

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium,Hexavalent	4.64		2.52	1	11/18/2016 14:54	WG926966

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	67.0		1	10/25/2016 08:57	WG920423

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium,Hexavalent	ND		2.99	1	11/18/2016 14:56	WG926966

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.0		1	10/25/2016 08:57	WG920423

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium,Hexavalent	ND		2.63	1	11/18/2016 14:56	WG926966

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	71.0		1	10/25/2016 08:57	WG920423

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium,Hexavalent	ND		2.82	1	11/18/2016 14:57	WG926966

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	74.5		1	10/25/2016 08:57	WG920423

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium,Hexavalent	ND		2.68	1	11/18/2016 14:58	WG926966

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	73.5		1	10/25/2016 08:57	WG920423

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium,Hexavalent	ND		2.72	1	11/18/2016 14:59	WG926966

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.4		1	10/25/2016 08:57	WG920423

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium,Hexavalent	ND		2.46	1	11/18/2016 15:00	WG926966

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.8		1	10/25/2016 08:57	WG920423

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium,Hexavalent	ND		2.23	1	11/18/2016 15:00	WG926966

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.1		1	10/25/2016 08:32	WG920424

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium,Hexavalent	ND		2.30	1	11/18/2016 15:00	WG926966

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.1		1	10/25/2016 08:40	WG920425

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium,Hexavalent	4.70		2.20	1	11/18/2016 15:00	WG926966

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.3		1	10/25/2016 08:40	WG920425

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium,Hexavalent	ND		2.17	1	11/21/2016 15:42	WG926967

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.1		1	10/25/2016 08:40	WG920425

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium,Hexavalent	ND		2.59	1	11/21/2016 15:42	WG926967

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.6		1	10/25/2016 10:17	WG920420

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium,Hexavalent	ND		2.58	1	11/21/2016 15:42	WG926967

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.8		1	10/25/2016 13:42	WG920536

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium,Hexavalent	ND		2.25	1	11/21/2016 15:44	WG926967

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	59.5		1	10/25/2016 13:42	WG920536

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium,Hexavalent	ND		3.36	1	11/21/2016 15:45	WG926967

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.3		1	10/25/2016 13:42	WG920536

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium,Hexavalent	ND		2.29	1	11/21/2016 15:46	WG926967

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.8		1	10/25/2016 13:42	WG920536

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium,Hexavalent	ND		2.51	1	11/21/2016 15:46	WG926967

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	74.2		1	10/25/2016 13:42	WG920536

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium,Hexavalent	ND		2.70	1	11/21/2016 15:47	WG926967

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.2		1	10/25/2016 16:27	WG920537

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium,Hexavalent	ND		2.22	1	11/21/2016 15:48	WG926967

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.4		1	10/25/2016 16:27	WG920537

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium,Hexavalent	ND		2.65	1	11/21/2016 15:48	WG926967

Method Blank (MB)

(MB) R3173302-1 10/25/16 10:50

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L867860-02 Original Sample (OS) • Duplicate (DUP)

(OS) L867860-02 10/25/16 10:50 • (DUP) R3173302-3 10/25/16 10:50

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	81.1	77.6	1	4.44		5

Laboratory Control Sample (LCS)

(LCS) R3173302-2 10/25/16 10:50

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3173301-1 10/25/16 10:25

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000200			

L867860-20 Original Sample (OS) • Duplicate (DUP)

(OS) L867860-20 10/25/16 10:25 • (DUP) R3173301-3 10/25/16 10:25

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	73.6	75.2	1	2.13		5

Laboratory Control Sample (LCS)

(LCS) R3173301-2 10/25/16 10:25

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	49.9	99.9	85.0-115	

Method Blank (MB)

(MB) R3173255-1 10/25/16 10:17

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000600			

L867860-125 Original Sample (OS) • Duplicate (DUP)

(OS) L867860-125 10/25/16 10:17 • (DUP) R3173255-3 10/25/16 10:17

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	78.8	79.2	1	0.502		5

Laboratory Control Sample (LCS)

(LCS) R3173255-2 10/25/16 10:17

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3173249-1 10/25/16 08:57

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000400			

L867860-38 Original Sample (OS) • Duplicate (DUP)

(OS) L867860-38 10/25/16 08:57 • (DUP) R3173249-3 10/25/16 08:57

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	67.1	64.4	1	3.97		5

Laboratory Control Sample (LCS)

(LCS) R3173249-2 10/25/16 08:57

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3173284-1 10/25/16 08:32

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.000400			

L867860-48 Original Sample (OS) • Duplicate (DUP)

(OS) L867860-48 10/25/16 08:32 • (DUP) R3173284-3 10/25/16 08:32

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	87.1	81.5	1	6.73	J3	5

Laboratory Control Sample (LCS)

(LCS) R3173284-2 10/25/16 08:32

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	99.9	85.0-115	

Method Blank (MB)

(MB) R3173248-1 10/25/16 08:40

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000500			

L867860-58 Original Sample (OS) • Duplicate (DUP)

(OS) L867860-58 10/25/16 08:40 • (DUP) R3173248-3 10/25/16 08:40

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	69.7	70.7	1	1.45		5

Laboratory Control Sample (LCS)

(LCS) R3173248-2 10/25/16 08:40

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3173309-1 10/25/16 13:42

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.000400			

L867872-09 Original Sample (OS) • Duplicate (DUP)

(OS) L867872-09 10/25/16 13:42 • (DUP) R3173309-3 10/25/16 13:42

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	75.4	78.9	1	4.57		5

Laboratory Control Sample (LCS)

(LCS) R3173309-2 10/25/16 13:42

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3173268-1 10/25/16 16:27

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000800			

L867873-03 Original Sample (OS) • Duplicate (DUP)

(OS) L867873-03 10/25/16 16:27 • (DUP) R3173268-3 10/25/16 16:27

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	74.5	75.4	1	1.21		5

Laboratory Control Sample (LCS)

(LCS) R3173268-2 10/25/16 16:27

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3179214-1 11/18/16 14:47

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chromium,Hexavalent	U		0.640	2.00

L871113-01 Original Sample (OS) • Duplicate (DUP)

(OS) L871113-01 11/18/16 14:50 • (DUP) R3179214-4 11/18/16 14:51

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chromium,Hexavalent	ND	ND	1	0.000		20

L871225-01 Original Sample (OS) • Duplicate (DUP)

(OS) L871225-01 11/18/16 14:51 • (DUP) R3179214-5 11/18/16 14:51

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chromium,Hexavalent	ND	ND	1	0.000		20

L873192-04 Original Sample (OS) • Duplicate (DUP)

(OS) L873192-04 11/18/16 15:03 • (DUP) R3179214-6 11/18/16 15:03

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chromium,Hexavalent	U	ND	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3179214-2 11/18/16 14:48 • (LCSD) R3179214-3 11/18/16 14:48

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chromium,Hexavalent	56.9	46.2	46.4	81.0	82.0	80.0-120			0.000	20

L873192-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L873192-04 11/18/16 15:03 • (MS) R3179214-7 11/18/16 15:04 • (MSD) R3179214-8 11/18/16 15:04

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium,Hexavalent	23.9	U	20.9	21.4	87.0	90.0	1	75.0-125			2.00	20

Method Blank (MB)

(MB) R3179678-1 11/21/16 15:40

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chromium,Hexavalent	U		0.640	2.00

L872857-14 Original Sample (OS) • Duplicate (DUP)

(OS) L872857-14 11/21/16 15:42 • (DUP) R3179678-4 11/21/16 15:42

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chromium,Hexavalent	ND	ND	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3179678-2 11/21/16 15:40 • (LCSD) R3179678-3 11/21/16 15:40

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chromium,Hexavalent	56.9	48.2	48.0	85.0	84.0	80.0-120			0.000	20

L872857-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L872857-14 11/21/16 15:42 • (MS) R3179678-5 11/21/16 15:43 • (MSD) R3179678-6 11/21/16 15:43

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium,Hexavalent	25.8	ND	30.8	30.5	120	118	1	75.0-125			1.00	20

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Rec.	Recovery.

Qualifier	Description
J3	The associated batch QC was outside the established quality control range for precision.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

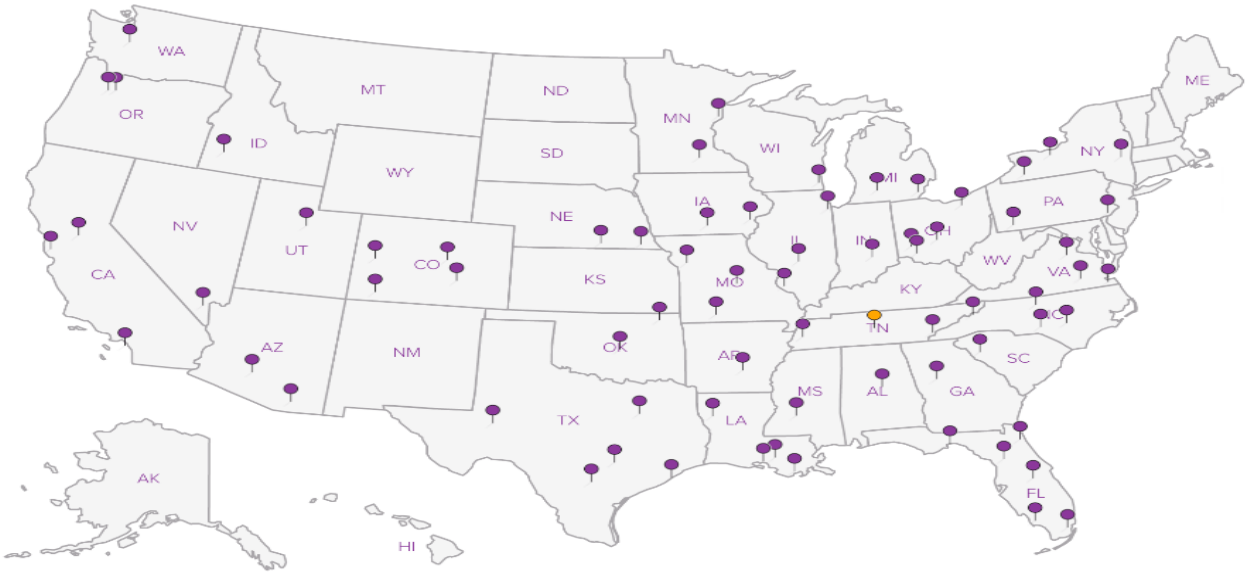
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:

Collected by (signature):
Packed on Ice N

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 2 of 40

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859
L872857

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
AK-78:0	Grab	SS		10/8/16		1	X			~~467660-09~~
↓ :18	Grab	SS				1	X			~~-05~~
↓ :30	Grab	SS				1	X			~~-06~~
AL-72:0	Grab	SS				1		X		
AL-72:18	Grab	SS				1		X		
AP99:0	Grab	SS				1	X			~~-04~~
↓ :18	Grab	SS				1	X			~~-A~~
↓ :30	Grab	SS				1	X		-01	~~-05~~
AQ-79:0	Grab	SS		↓		1	X			~~-C~~

AV 11/15/16

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐	Condition: (lab use only)
	10-21-16	1200			JW7
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: AMb / Bottles Received: 358	cccs2
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 9W	pH Checked: / NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team

Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS | City/State Collected: Mt. Vernon

Phone: 713-805-2994 FAX: 832-295-6404 | Client Project #: Mt. Vernon | ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins | Site/Facility ID#: Mt. Vernon | P.O.#:

Collected by (signature): [signature] Packed on Ice: N

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
AQ-79 : 18	Grab	SS		10-18-16		1	X			
AQ-79 : 30	Grab	SS				1	X			
AQ-86 : 0	Grab	SS				1	X			
↓ : 18	Grab	SS				1	X		-a	
↓ : 30	Grab	SS				1	X			
AS117 : 0	Grab	SS				1		X		
↓ : 18	Grab	SS				1		X		
↓ : 30	Grab	SS				1		X		
AU-65 : 0	Grab	SS		↓		1		X		

Chain of Custody Page 3 of 40

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859
L872857

CoCode: portenvtx (lab use only)
Template/Prelogin
Shipped Via:

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
[signature]	10-21-16	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
			[signature]

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____

Temp:	Bottles Received:	Condition: (lab use only)
Amb	35	JW COC SS
Date:	Time:	pH Checked:
10-22-16	940	NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon
Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:
Collected by (signature):
Packed on Ice: N

Rush? (Lab MUST Be Notified)
___ Same Day..... 200%
___ Next Day..... 100%
___ Two Day..... 50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
CO-73 :18	Grab	SS		10-5-16		1		X		~~872857~~
CO-78 :0	Grab	SS				1	X		-03	38
:18	Grab	SS				1	X		-04	39
:30	Grab	SS				1	X			~~40~~
CS88 :0	Grab	SS				1		X		
:18	Grab	SS				1		X		
:30	Grab	SS				1		X		
CU-65 :0	Grab	SS				1		X		
:18	Grab	SS				1		X		

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10-7-16	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
			Jay Dow

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____
Temp: Amb
Bottles Received: 358
Date: 10-CC-16
Time: 900
Condition: JW7 COCSI (lab use only)
pH Checked:
NCF: X

Chain of Custody Page 12 of 40

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
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Mt. Juliet, TN 37122
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Phone (800) 767-5859
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L872857

CoCode: portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:

Collected by (signature):
Packed on Ice: N

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
CU-65 :30	Grab	SS		10-18-16		1		X		
CU-71 :0	Grab	SS		10-19-16		1		X		
↓ :18	Grab	SS		↓		1		X		
↓ :30	Grab	SS				1		X		
CU72 :0	Grab	SS				1	X			
↓ :18	Grab	SS				1	X		-05	
↓ :30	Grab	SS				1	X		-06	
CU-75 :0	Grab	SS				1	X		07	
↓ :18	Grab	SS		↓		1	X		08	

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10/21/16	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____
Temp: Amb
Bottles Received: 558
Date: 10-22-16
Time: 9W

Condition: (lab use only) JW7 LOCSI
pH Checked:
NCF: X

Chain of Custody Page 17 of 40

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859
L872857

CoCode: portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:
Collected by (signature):
Packed on Ice: N

Rush? (Lab MUST Be Notified)
___ Same Day..... 200%
___ Next Day..... 100%
___ Two Day..... 50%
Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 14 of 40

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859
L878857

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
CU-75:30	Grab	SS		10/19/16		1	X		.09	~~41~~
CY75:0	Grab	SS				1		X		
:18	Grab	SS				1		X		
↓ :30	Grab	SS				1		X		
DE-59:0	Grab	SS				1		X		
↓ :18	Grab	SS				1		X		
↓ :30	Grab	SS				1		X		
DE61:0	Grab	SS				1	X			~~47~~
↓ :18	Grab	SS		↓		1	X		10	~~A~~

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐	Condition: (lab use only)
	10-21-16	1200			SW7 cocs1
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: AMB / Bottles Received: 355	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 900	pH Checked: / NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon
Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:
Collected by (signature):
Packed on Ice: N (Y)

Rush? (Lab MUST Be Notified)
___ Same Day.....200%
___ Next Day.....100%
___ Two Day.....50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
X-50 : 0	Grab	SS		101916		1		X		627865
: 18	Grab	SS				1		X		
↓ : 30	Grab	SS				1		X		66
X-74 : 0	Grab	SS				1	X			64
: 18	Grab	SS				1	X		-11	
↓ : 30	Grab	SS				1	X		-12	67
Z114 : 0	Grab	SS				1		X		
: 18	Grab	SS				1		X		
↓ : 24	Grab	SS		↓		1		X		

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10-21-16	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
			Amy Wan

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____
Temp: Amb
Bottles Received: 38
Date: 10-22-16
Time: 9W

Condition: (lab use only) JW1 LASI
pH Checked:
NCF: X

Chain of Custody Page 19 of 40

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859
L872857

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Chain of Custody Page 2 of 4

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:

Collected by (signature):
Packed on Ice: N Y

Rush? (Lab MUST Be Notified)
___ Same Day.....200%
___ Next Day.....100%
___ Two Day.....50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859
L872881

CoCode: portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
OOB-87:18	Grab	SS		10/19/16		1		X		167822
↓ -87:30	Grab	SS				1		X		
OOC-70:0	Grab	SS				1		X		
↓ -70:18	Grab	SS				1		X		
↓ -70:30	Grab	SS				1		X		
OOF-75:0	Grab	SS				1		X		
↓ -75:18	Grab	SS				1	X		-13	64
↓ -75:30	Grab	SS				1	X			65
OOF-94:0	Grab	SS		↓		1	X			66

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date: 10/21/16	Time: 1200	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐	Condition: (lab use only) 3w7 cocs7
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb / Bottles Received: 158	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 9a	pH Checked: / NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pel-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon
Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:
Collected by (signature):
Packed on Ice: N

Rush? (Lab MUST Be Notified)
___ Same Day.....200%
___ Next Day.....100%
___ Two Day.....50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
OF59:18	Grab	SS		10/20/16		1	X			174960-116
↓ :30	Grab	SS				1	X			117
OF74:0	Grab	SS				1	X			118
74:18	Grab	SS				1	X			119
↓ :30	Grab	SS				1	X		-14	120
OH-45:0	Grab	SS		10/18/16		1		X		
:18	Grab	SS				1		X		
↓ :30	Grab	SS				1		X		
OJ-52:0	Grab	SS		↓		1	X			121

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Chain of Custody Page 36 of 42

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859
L872857

CoCode: portenvtx (lab use only)
Template/Prelogin:
Shipped Via:

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10/21/16	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
			Tony Dean

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____
Temp: Amb
Bottles Received: 35 S
Date: 10-22-16
Time: 900
Condition: JW7 COC'S (lab use only)
pH Checked:
NCF: X

F162

Chain of Custody Page 1 of 3

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon
Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: RED
P.O.#:
Collected by (Signature):
Packed on Ice: N
Rush? (Lab MUST Be Notified) ___ Same Day.....200% ___ Next Day.....100% ___ Two Day.....50%
Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative: Chromium; HOLD

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859
L872857

CoCode: portenvtx (lab use only)
Template/Prelogin:
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
MV-DG-70:18	Grab	SS		10-20-16		1	X			~~L872857-01~~
MV-DH83:18	Grab	SS				1	X			~~02~~
MV-DQ83:0	Grab	SS				1	X			~~03~~
MV-AF25:18	Grab	SS				1	X			~~04~~
MV-AI-85:0	Grab	SS				1	X			~~05~~
MV-AU28:18	Grab	SS				1	X		-15	~~06~~
MV-AU31:0	Grab	SS				1	X			~~07~~
MV-AZ26:18	Grab	SS				1	X			~~08~~
MV-CE-92:12	Grab	SS				1	X			~~09~~

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____
Flow _____ Other _____

Remarks:

Relinquished by: (Signature)	Date: 10-21-16	Time: 1200	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐	Condition:	(lab use only)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: AM3	Bottles Received: 20=20	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16	Time: 9:00	pH Checked: NCF:

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon
Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: REDO
P.O.#:
Collected by (signature):
Packed on Ice: N

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
MV-CG-89:0	Grab	SS		10-20-16		1	X		16	~~L867922-16~~
MV-CO-88:18	Grab	SS				1	X		17	~~17~~
MV-CO-91:18	Grab	SS				1	X			~~T2~~
MV-CP-80:0	Grab	SS				1	X		18	~~T3~~
MV-CP-80:12	Grab	SS				1	X		19 ~~T8~~	~~14~~
MV-CQ-89:18	Grab	SS				1	X			~~15~~
MV-CQ-92:18	Grab	SS				1	X		20 ~~19~~	~~16~~
MV-CS69:18	Grab	SS				1	X			~~17~~
MV-CT-78:12	Grab	SS				1	X		21 ~~20~~	~~18~~

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____
Flow _____ Other _____

Remarks:

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10-21-16	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____
Temp: AM3
Bottles Received: 20=20?
Date: 10-22-16
Time: 9:00
Condition: (lab use only)
pH Checked:
NCF:

Chain of Custody Page 2 of 3

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
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Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859
L872357

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Andy Vann

To: Tom Mellette; Sample Storage; Login; Reporting
Cc: John Davis
Subject: RE: PORTENVTX-WAHG Mt. Vernon Sample Sets (We have hold and run samples in play).

From: Tom Mellette
Sent: Monday, November 14, 2016 12:23 PM
To: Eric Koltes
Cc: Andy Vann; John Davis; Aaron Galer; Alan Hopkins P.G.
Subject: RE: PORTENVTX-WAHG Mt. Vernon Sample Sets (We have hold and run samples in play).

Eric – will do.

Andy – light the fuse on the relogs, CR6, Transfer TS, and EDD=WA EIM on a STD TAT

From: Eric Koltes [mailto:erick@epi-wa.com]
Sent: Monday, November 14, 2016 11:37 AM
To: Tom Mellette
Cc: Andy Vann; John Davis; Aaron Galer; Alan Hopkins P.G.
Subject: Re: PORTENVTX-WAHG Mt. Vernon Sample Sets (We have hold and run samples in play).

Tom,

Please add Chromium VI analysis to the samples indicated in the attached screenshot - these are sorted by Laboratory Report # for ease.

Please let me know if you have any questions.

Thanks,

Eric

PS - I know it's a lot of effort, but please hold the samples until we are sure we don't need additional analysis - we may need additional samples analyzed for Cr VI after this set has been returned.

Thank you!

Eric Koltes LG - Senior Geologist
ENVIRONMENTAL PARTNERS, INC.
1180 NW Maple Street, Suite 310 Issaquah, Washington 98027
425.395.0014 (direct) | 425.922.5666 (cell) | erick@epi-wa.com

2	Client Sample ID			Result	Lab Sample ID
3	AP99:30	30	10/18/16	129	L867860-09
4	0F74:30	30	10/18/16	146	L867860-120
5	AQ-86:18	18	10/18/16	334	L867860-14
6	CO-78:0	0	10/18/16	147	L867860-38
7	CO-78:18	18	10/18/16	201	L867860-39
8	CU72:18	18	10/18/16	159	L867860-42
9	CU72:30	30	10/18/16	195	L867860-43
10	CU-75:0	0	10/18/16	254	L867860-44
11	CU-75:18	18	10/18/16	783	L867860-45
12	CU-75:30	30	10/18/16	268	L867860-46
13	DE61:18	18	10/18/16	144	L867860-48
14	X-74:18	18	10/18/16	209	L867860-62
15	X-74:30	30	10/18/16	214	L867860-63
16	00F-75:18	18	10/18/16	147	L867860-64
17	MV-AU28:18	18	10/20/16	312	L867872-06
18	MV-CG-89:0	0	10/20/16	262	L867872-10
19	MV-CO-88:18	18	10/20/16	329	L867872-11
20	MV-CP-80:0	0	10/20/16	239	L867872-13
21	MV-CP-80:12	12	10/20/16	274	L867872-14
22	MV-CQ-92:18	18	10/20/16	743	L867872-16
23	MV-CT-78:12	12	10/20/16	214	L867872-18
24					
25					

On Nov 14, 2016, at 8:58 AM, Tom Mellette <tmellette@esclabsciences.com> wrote:

Great thanks.

From: Eric Koltes [mailto:erick@epi-wa.com]
Sent: Monday, November 14, 2016 10:40 AM
To: Tom Mellette
Cc: Andy Vann; John Davis; Aaron Galer; Alan Hopkins P.G.
Subject: Re: PORTENVTX-WAHG Mt. Vernon Sample Sets (We have hold and run samples in play).

Tom,

I will get our chromium VI request in in the next day or two.

Eric.

Sent from my iPhone

On Nov 14, 2016, at 8:31 AM, Tom Mellette <TMellette@esclabsciences.com> wrote:

> **Please HOLD these samples " DO NOT SEND TO DISPOSAL " – there are hundreds of containers in play here (hold and run). I just got this info today, sorry they were not tagged at login to hold . I know this will take hours to round up. It may be a good idea to send all containers to login cold room to hold. Andy please call John D and formulate a plan that makes sense.**

L867860 – Soils reported 10/28/16
L867869 – Soils reported 10/26/16
L867872 – Soils reported 10/28/16
L870485 – Soils reported 11/9/16

L872252 – waters just arrived 11/11, I don't believe these are in play but just hold them to be safe.

Eric / Alan – unless more soils are coming you have all the data for total Chromium in hand.

Thanks,
Tom

From: Eric Koltes [mailto:erick@epi-wa.com]
Sent: Friday, November 11, 2016 6:38 PM
To: Tom Mellette
Cc: Aaron Galer; Alan Hopkins P.G.
Subject: Re: ESC Lab Sciences Login for Mt. Vernon L872252

Tom,

FYI

Please make sure you are holding all samples for this round of sampling at Mt. Vernon - we will be submitting chromium 6 analysis, but we are waiting for all the results to select the sample set.

Please do not throw the samples away until noted.

Thanks,

Eric

Eric Koltes LG - Senior Geologist
ENVIRONMENTAL PARTNERS, INC.
1180 NW Maple Street, Suite 310 Issaquah, Washington 98027
425.395.0014 (direct) | 425.922.5666 (cell) | erick@epi-wa.com

Sent from my iPad

On Nov 11, 2016, at 4:13 PM, Tom Mellette <tmellette@esclabsciences.com> wrote:

> Thank you for choosing ESC Lab Sciences! Please find enclosed PDF files containing your laboratory login confirmation and chain of custody.

ESC is leading the laboratory industry with our On-line Data Management tools. Please contact your Technical Service Representative to learn how to create historical Excel tables or access data in real time using powerful and intuitive software that is only available at http://www.esclabsciences.com.

Visit ESC's secure data management web site - myESC - for all your reporting and data management needs at http://www.esclabsciences.com/login

ESC ... "Your Lab of Choice"

Tom Mellette
Technical Service Representative
615-773-9676

ESC Lab Sciences
12065 Lebanon Rd.
Mt. Juliet, TN 37122

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<COCL872252.pdf>

<ln01L872252.pdf>

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ANALYTICAL REPORT

November 30, 2016

Portnoy Environmental

Sample Delivery Group:	L873507
Samples Received:	10/22/2016
Project Number:	MT. VERNON
Description:	Mt. Vernon CS
Site:	MT. VERNON
Report To:	NWPL Team 1414 W. Sam Houston Pkwy. N., Suite 170 Houston, TX 77043

Entire Report Reviewed By:

Carol Fisher

Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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000P-75:30 L873507-03 20

000P-95:0 L873507-04 21

000P-95:18 L873507-05 22

000P-95:30 L873507-06 23

000T-58:0 L873507-07 24

000T-58:18 L873507-08 25

000T-58:30 L873507-09 26

000V135:0 L873507-10 27

000V135:18 L873507-11 28

00I145:0 L873507-12 29

00I145:18 L873507-13 30

00F-75:0 L873507-14 31

00I145:30 L873507-15 32

00F-94:18 L873507-16 33

00F-94:30 L873507-17 34

00J95:0 L873507-18 35

00J95:18 L873507-19 36

00J95:30 L873507-20 37

00L52:0 L873507-21 38

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0O145:30 L873507-32 49

0W-33:0 L873507-33 50

0W-33:18 L873507-34 51

0W-33:30 L873507-35 52
AC124:0 L873507-36 53
AC124:18 L873507-37 54
AH-62:0 L873507-38 55
AH-62:18 L873507-39 56
AH-62:30 L873507-40 57
AS117:0 L873507-41 58
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CE84:30 L873507-51 68
CE94:0 L873507-52 69
CE94:18 L873507-53 70
CE94:30 L873507-54 71
CH-72:0 L873507-55 72
CH-72:18 L873507-56 73
CH-72:30 L873507-57 74
CN-59:0 L873507-58 75
CN-59:18 L873507-59 76
CN-59:30 L873507-60 77
CO-67:0 L873507-61 78
CO-67:18 L873507-62 79
CU-65:0 L873507-63 80
CU-65:18 L873507-64 81
CU-65:30 L873507-65 82
DI72:0 L873507-66 83
DI72:18 L873507-67 84
DI72:30 L873507-68 85
J-41:0 L873507-69 86
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[8]Al: Accreditations & Locations 102

[9]Sc: Chain of Custody 103

000P-75:0 L873507-01 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927837	1	11/18/16 11:12	11/22/16 14:30	LTB
Total Solids by Method 2540 G-2011	WG927893	1	11/18/16 13:42	11/18/16 13:54	MEL

000P-75:18 L873507-02 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927837	1	11/18/16 11:12	11/22/16 14:48	LTB
Total Solids by Method 2540 G-2011	WG927893	1	11/18/16 13:42	11/18/16 13:54	MEL

000P-75:30 L873507-03 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927837	1	11/18/16 11:12	11/22/16 14:51	LTB
Total Solids by Method 2540 G-2011	WG927893	1	11/18/16 13:42	11/18/16 13:54	MEL

000P-95:0 L873507-04 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927837	1	11/18/16 11:12	11/22/16 14:54	LTB
Total Solids by Method 2540 G-2011	WG927893	1	11/18/16 13:42	11/18/16 13:54	MEL

000P-95:18 L873507-05 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927837	1	11/18/16 11:12	11/22/16 14:56	LTB
Total Solids by Method 2540 G-2011	WG927893	1	11/18/16 13:42	11/18/16 13:54	MEL

000P-95:30 L873507-06 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927837	1	11/18/16 11:12	11/22/16 14:59	LTB
Total Solids by Method 2540 G-2011	WG927893	1	11/18/16 13:42	11/18/16 13:54	MEL

000T-58:0 L873507-07 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927837	1	11/18/16 11:12	11/22/16 15:02	LTB
Total Solids by Method 2540 G-2011	WG927893	1	11/18/16 13:42	11/18/16 13:54	MEL

000T-58:18 L873507-08 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927837	1	11/18/16 11:12	11/22/16 15:04	LTB
Total Solids by Method 2540 G-2011	WG927893	1	11/18/16 13:42	11/18/16 13:54	MEL

000T-58:30 L873507-09 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927837	1	11/18/16 11:12	11/22/16 15:07	LTB
Total Solids by Method 2540 G-2011	WG927893	1	11/18/16 13:42	11/18/16 13:54	MEL

000V135:0 L873507-10 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927837	1	11/18/16 11:12	11/22/16 15:15	LTB
Total Solids by Method 2540 G-2011	WG927893	1	11/18/16 13:42	11/18/16 13:54	MEL

000V135:18 L873507-11 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927837	1	11/18/16 11:12	11/22/16 15:17	LTB
Total Solids by Method 2540 G-2011	WG927894	1	11/18/16 10:48	11/18/16 10:56	MEL

00I145:0 L873507-12 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927837	1	11/18/16 11:12	11/22/16 15:20	LTB
Total Solids by Method 2540 G-2011	WG927894	1	11/18/16 10:48	11/18/16 10:56	MEL

00I145:18 L873507-13 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927837	1	11/18/16 11:12	11/22/16 15:23	LTB
Total Solids by Method 2540 G-2011	WG927894	1	11/18/16 10:48	11/18/16 10:56	MEL

00F-75:0 L873507-14 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927837	1	11/18/16 11:12	11/22/16 15:25	LTB
Total Solids by Method 2540 G-2011	WG927894	1	11/18/16 10:48	11/18/16 10:56	MEL

00I145:30 L873507-15 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927837	1	11/18/16 11:12	11/22/16 15:28	LTB
Total Solids by Method 2540 G-2011	WG927894	1	11/18/16 10:48	11/18/16 10:56	MEL

00F-94:18 L873507-16 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927837	1	11/18/16 11:12	11/22/16 15:31	LTB
Total Solids by Method 2540 G-2011	WG927894	1	11/18/16 10:48	11/18/16 10:56	MEL

00F-94:30 L873507-17 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927837	1	11/18/16 11:12	11/22/16 15:33	LTB
Total Solids by Method 2540 G-2011	WG927894	1	11/18/16 10:48	11/18/16 10:56	MEL

00J95:0 L873507-18 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927837	1	11/18/16 11:12	11/22/16 15:36	LTB
Total Solids by Method 2540 G-2011	WG927894	1	11/18/16 10:48	11/18/16 10:56	MEL

00J95:18 L873507-19 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927837	1	11/18/16 11:12	11/22/16 15:39	LTB
Total Solids by Method 2540 G-2011	WG927894	1	11/18/16 10:48	11/18/16 10:56	MEL

00J95:30 L873507-20 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927837	1	11/18/16 11:12	11/22/16 15:47	LTB
Total Solids by Method 2540 G-2011	WG927894	1	11/18/16 10:48	11/18/16 10:56	MEL

00L52:0 L873507-21 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927838	1	11/18/16 11:48	11/22/16 15:57	LTB
Total Solids by Method 2540 G-2011	WG927895	1	11/18/16 10:35	11/18/16 10:45	MEL

00L52:18 L873507-22 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927838	1	11/18/16 11:48	11/22/16 16:10	LTB
Total Solids by Method 2540 G-2011	WG927895	1	11/18/16 10:35	11/18/16 10:45	MEL

00L52:30 L873507-23 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927838	1	11/18/16 11:48	11/22/16 16:18	LTB
Total Solids by Method 2540 G-2011	WG927895	1	11/18/16 10:35	11/18/16 10:45	MEL

00L72:0 L873507-24 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927838	1	11/18/16 11:48	11/22/16 16:21	LTB
Total Solids by Method 2540 G-2011	WG927895	1	11/18/16 10:35	11/18/16 10:45	MEL

00L72:18 L873507-25 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927838	1	11/18/16 11:48	11/22/16 16:24	LTB
Total Solids by Method 2540 G-2011	WG927895	1	11/18/16 10:35	11/18/16 10:45	MEL

00L72:30 L873507-26 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927838	1	11/18/16 11:48	11/22/16 16:26	LTB
Total Solids by Method 2540 G-2011	WG927895	1	11/18/16 10:35	11/18/16 10:45	MEL

00W148:0 L873507-27 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927838	1	11/18/16 11:48	11/22/16 16:29	LTB
Total Solids by Method 2540 G-2011	WG927895	1	11/18/16 10:35	11/18/16 10:45	MEL

00W148:18 L873507-28 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927838	1	11/18/16 11:48	11/22/16 16:32	LTB
Total Solids by Method 2540 G-2011	WG927895	1	11/18/16 10:35	11/18/16 10:45	MEL

00W148:30 L873507-29 Solid

Collected by: Alan Hopkins | Collected date/time: 10/20/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927838	1	11/18/16 11:48	11/22/16 16:34	LTB
Total Solids by Method 2540 G-2011	WG927895	1	11/18/16 10:35	11/18/16 10:45	MEL

0O145:0 L873507-30 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927838	1	11/18/16 11:48	11/22/16 16:37	LTB
Total Solids by Method 2540 G-2011	WG927895	1	11/18/16 10:35	11/18/16 10:45	MEL

0O145:18 L873507-31 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927838	1	11/18/16 11:48	11/22/16 16:39	LTB
Total Solids by Method 2540 G-2011	WG927896	1	11/18/16 10:13	11/18/16 10:21	MEL

0O145:30 L873507-32 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927838	1	11/18/16 11:48	11/22/16 16:42	LTB
Total Solids by Method 2540 G-2011	WG927896	1	11/18/16 10:13	11/18/16 10:21	MEL

0W-33:0 L873507-33 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927838	1	11/18/16 11:48	11/22/16 16:50	LTB
Total Solids by Method 2540 G-2011	WG927896	1	11/18/16 10:13	11/18/16 10:21	MEL

0W-33:18 L873507-34 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927838	1	11/18/16 11:48	11/22/16 16:53	LTB
Total Solids by Method 2540 G-2011	WG927896	1	11/18/16 10:13	11/18/16 10:21	MEL

0W-33:30 L873507-35 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927838	1	11/18/16 11:48	11/22/16 16:56	LTB
Total Solids by Method 2540 G-2011	WG927896	1	11/18/16 10:13	11/18/16 10:21	MEL

AC124:0 L873507-36 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927838	1	11/18/16 11:48	11/22/16 16:58	LTB
Total Solids by Method 2540 G-2011	WG927896	1	11/18/16 10:13	11/18/16 10:21	MEL

AC124:18 L873507-37 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927838	1	11/18/16 11:48	11/22/16 17:01	LTB
Total Solids by Method 2540 G-2011	WG927896	1	11/18/16 10:13	11/18/16 10:21	MEL

AH-62:0 L873507-38 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927838	1	11/18/16 11:48	11/22/16 17:03	LTB
Total Solids by Method 2540 G-2011	WG927896	1	11/18/16 10:13	11/18/16 10:21	MEL

AH-62:18 L873507-39 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927838	1	11/18/16 11:48	11/22/16 17:06	LTB
Total Solids by Method 2540 G-2011	WG927896	1	11/18/16 10:13	11/18/16 10:21	MEL

AH-62:30 L873507-40 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927838	1	11/18/16 11:48	11/22/16 17:08	LTB
Total Solids by Method 2540 G-2011	WG927896	1	11/18/16 10:13	11/18/16 10:21	MEL

AS117:0 L873507-41 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927839	1	11/18/16 12:58	11/22/16 17:37	LTB
Total Solids by Method 2540 G-2011	WG927897	1	11/18/16 09:58	11/18/16 10:12	MEL

AS117:18 L873507-42 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927839	1	11/18/16 12:58	11/22/16 17:40	LTB
Total Solids by Method 2540 G-2011	WG927897	1	11/18/16 09:58	11/18/16 10:12	MEL

AS117:30 L873507-43 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927839	1	11/18/16 12:58	11/22/16 17:43	LTB
Total Solids by Method 2540 G-2011	WG927897	1	11/18/16 09:58	11/18/16 10:12	MEL

AU-65:0 L873507-44 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927839	1	11/18/16 12:58	11/22/16 17:45	LTB
Total Solids by Method 2540 G-2011	WG927897	1	11/18/16 09:58	11/18/16 10:12	MEL

AU-65:18 L873507-45 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927839	1	11/18/16 12:58	11/22/16 17:53	LTB
Total Solids by Method 2540 G-2011	WG927897	1	11/18/16 09:58	11/18/16 10:12	MEL

AU-65:30 L873507-46 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927839	1	11/18/16 12:58	11/22/16 17:56	LTB
Total Solids by Method 2540 G-2011	WG927897	1	11/18/16 09:58	11/18/16 10:12	MEL

BM102:0 L873507-47 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927839	1	11/18/16 12:58	11/22/16 17:58	LTB
Total Solids by Method 2540 G-2011	WG927897	1	11/18/16 09:58	11/18/16 10:12	MEL

BM102:18 L873507-48 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927839	1	11/18/16 12:58	11/22/16 18:01	LTB
Total Solids by Method 2540 G-2011	WG927897	1	11/18/16 09:58	11/18/16 10:12	MEL

BM102:30 L873507-49 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927839	1	11/18/16 12:58	11/22/16 18:04	LTB
Total Solids by Method 2540 G-2011	WG927897	1	11/18/16 09:58	11/18/16 10:12	MEL

CE84:18 L873507-50 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927839	1	11/18/16 12:58	11/22/16 18:06	LTB
Total Solids by Method 2540 G-2011	WG927897	1	11/18/16 09:58	11/18/16 10:12	MEL

CE84:30 L873507-51 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927839	1	11/18/16 12:58	11/22/16 18:09	LTB
Total Solids by Method 2540 G-2011	WG927898	1	11/18/16 09:40	11/18/16 09:56	MEL

CE94:0 L873507-52 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927839	1	11/18/16 12:58	11/22/16 18:12	LTB
Total Solids by Method 2540 G-2011	WG927898	1	11/18/16 09:40	11/18/16 09:56	MEL

CE94:18 L873507-53 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927839	1	11/18/16 12:58	11/22/16 18:14	LTB
Total Solids by Method 2540 G-2011	WG927898	1	11/18/16 09:40	11/18/16 09:56	MEL

CE94:30 L873507-54 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927839	1	11/18/16 12:58	11/22/16 18:17	LTB
Total Solids by Method 2540 G-2011	WG927898	1	11/18/16 09:40	11/18/16 09:56	MEL

CH-72:0 L873507-55 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927839	1	11/18/16 12:58	11/22/16 18:25	LTB
Total Solids by Method 2540 G-2011	WG927898	1	11/18/16 09:40	11/18/16 09:56	MEL

CH-72:18 L873507-56 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927839	1	11/18/16 12:58	11/22/16 18:28	LTB
Total Solids by Method 2540 G-2011	WG927898	1	11/18/16 09:40	11/18/16 09:56	MEL

CH-72:30 L873507-57 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927839	1	11/18/16 12:58	11/22/16 18:30	LTB
Total Solids by Method 2540 G-2011	WG927898	1	11/18/16 09:40	11/18/16 09:56	MEL

CN-59:0 L873507-58 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927839	1	11/18/16 12:58	11/22/16 18:33	LTB
Total Solids by Method 2540 G-2011	WG927898	1	11/18/16 09:40	11/18/16 09:56	MEL

CN-59:18 L873507-59 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927839	1	11/18/16 12:58	11/22/16 18:36	LTB
Total Solids by Method 2540 G-2011	WG927898	1	11/18/16 09:40	11/18/16 09:56	MEL

CN-59:30 L873507-60 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG927839	1	11/18/16 12:58	11/22/16 17:24	LTB
Total Solids by Method 2540 G-2011	WG927898	1	11/18/16 09:40	11/18/16 09:56	MEL

CO-67:0 L873507-61 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG928010	1	11/18/16 13:03	11/19/16 02:34	LTB
Total Solids by Method 2540 G-2011	WG927900	1	11/18/16 09:21	11/18/16 09:39	MEL

CO-67:18 L873507-62 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG928010	1	11/18/16 13:03	11/19/16 02:37	LTB
Total Solids by Method 2540 G-2011	WG927900	1	11/18/16 09:21	11/18/16 09:39	MEL

CU-65:0 L873507-63 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG928010	1	11/18/16 13:03	11/19/16 02:45	LTB
Total Solids by Method 2540 G-2011	WG927900	1	11/18/16 09:21	11/18/16 09:39	MEL

CU-65:18 L873507-64 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG928010	1	11/18/16 13:03	11/19/16 02:22	LTB
Total Solids by Method 2540 G-2011	WG927900	1	11/18/16 09:21	11/18/16 09:39	MEL

CU-65:30 L873507-65 Solid

Collected by: Alan Hopkins | Collected date/time: 10/18/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG928010	1	11/18/16 13:03	11/19/16 02:48	LTB
Total Solids by Method 2540 G-2011	WG927900	1	11/18/16 09:21	11/18/16 09:39	MEL

DI72:0 L873507-66 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG928010	1	11/18/16 13:03	11/19/16 02:50	LTB
Total Solids by Method 2540 G-2011	WG927900	1	11/18/16 09:21	11/18/16 09:39	MEL

DI72:18 L873507-67 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG928010	1	11/18/16 13:03	11/19/16 02:53	LTB
Total Solids by Method 2540 G-2011	WG927900	1	11/18/16 09:21	11/18/16 09:39	MEL

DI72:30 L873507-68 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG928010	1	11/18/16 13:03	11/19/16 02:55	LTB
Total Solids by Method 2540 G-2011	WG927900	1	11/18/16 09:21	11/18/16 09:39	MEL

J-41:0 L873507-69 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG928010	1	11/18/16 13:03	11/19/16 02:58	LTB
Total Solids by Method 2540 G-2011	WG927900	1	11/18/16 09:21	11/18/16 09:39	MEL

J-41:18 L873507-70 Solid

Collected by: Alan Hopkins | Collected date/time: 10/19/16 00:00 | Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG928010	1	11/18/16 13:03	11/19/16 03:01	LTB
Total Solids by Method 2540 G-2011	WG927900	1	11/18/16 09:21	11/18/16 09:39	MEL

J-41:30 L873507-71 Solid

Collected by: Alan Hopkins

Collected date/time: 10/19/16 00:00

Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG928010	1	11/18/16 13:03	11/19/16 03:03	LTB
Total Solids by Method 2540 G-2011	WG928012	1	11/18/16 13:00	11/18/16 13:08	KDW

All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Carol Fisher
Technical Service Representative

Sample Handling and Receiving

The following samples were prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.

ESC Sample ID	Project Sample ID	Method
L873507-01	000P-75:0	2540 G-2011
L873507-02	000P-75:18	2540 G-2011
L873507-03	000P-75:30	2540 G-2011
L873507-04	000P-95:0	2540 G-2011
L873507-05	000P-95:18	2540 G-2011
L873507-06	000P-95:30	2540 G-2011
L873507-07	000T-58:0	2540 G-2011
L873507-08	000T-58:18	2540 G-2011
L873507-09	000T-58:30	2540 G-2011
L873507-10	000V135:0	2540 G-2011
L873507-11	000V135:18	2540 G-2011
L873507-12	00I145:0	2540 G-2011
L873507-13	00I145:18	2540 G-2011
L873507-14	00F-75:0	2540 G-2011
L873507-15	00I145:30	2540 G-2011
L873507-16	00F-94:18	2540 G-2011
L873507-17	00F-94:30	2540 G-2011
L873507-18	00J95:0	2540 G-2011
L873507-19	00J95:18	2540 G-2011
L873507-20	00J95:30	2540 G-2011
L873507-21	00L52:0	2540 G-2011
L873507-22	00L52:18	2540 G-2011
L873507-23	00L52:30	2540 G-2011
L873507-24	00L72:0	2540 G-2011
L873507-25	00L72:18	2540 G-2011
L873507-26	00L72:30	2540 G-2011
L873507-27	00W148:0	2540 G-2011
L873507-28	00W148:18	2540 G-2011
L873507-29	00W148:30	2540 G-2011
L873507-30	0O145:0	2540 G-2011
L873507-31	0O145:18	2540 G-2011
L873507-32	0O145:30	2540 G-2011
L873507-33	0W-33:0	2540 G-2011
L873507-34	0W-33:18	2540 G-2011
L873507-35	0W-33:30	2540 G-2011
L873507-36	AC124:0	2540 G-2011
L873507-37	AC124:18	2540 G-2011

The following samples were prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.

ESC Sample ID	Project Sample ID	Method
L873507-38	AH-62:0	2540 G-2011
L873507-39	AH-62:18	2540 G-2011
L873507-40	AH-62:30	2540 G-2011
L873507-41	AS117:0	2540 G-2011
L873507-42	AS117:18	2540 G-2011
L873507-43	AS117:30	2540 G-2011
L873507-44	AU-65:0	2540 G-2011
L873507-45	AU-65:18	2540 G-2011
L873507-46	AU-65:30	2540 G-2011
L873507-47	BM102:0	2540 G-2011
L873507-48	BM102:18	2540 G-2011
L873507-49	BM102:30	2540 G-2011
L873507-50	CE84:18	2540 G-2011
L873507-51	CE84:30	2540 G-2011
L873507-52	CE94:0	2540 G-2011
L873507-53	CE94:18	2540 G-2011
L873507-54	CE94:30	2540 G-2011
L873507-55	CH-72:0	2540 G-2011
L873507-56	CH-72:18	2540 G-2011
L873507-57	CH-72:30	2540 G-2011
L873507-58	CN-59:0	2540 G-2011
L873507-59	CN-59:18	2540 G-2011
L873507-60	CN-59:30	2540 G-2011
L873507-61	CO-67:0	2540 G-2011
L873507-62	CO-67:18	2540 G-2011
L873507-63	CU-65:0	2540 G-2011
L873507-64	CU-65:18	2540 G-2011
L873507-65	CU-65:30	2540 G-2011
L873507-66	DI72:0	2540 G-2011
L873507-67	DI72:18	2540 G-2011
L873507-68	DI72:30	2540 G-2011
L873507-69	J-41:0	2540 G-2011
L873507-70	J-41:18	2540 G-2011
L873507-71	J-41:30	2540 G-2011

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	69.8		1	11/18/2016 13:54	WG927893

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	84.5		1.43	1	11/22/2016 14:30	WG927837

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	69.8		1	11/18/2016 13:54	WG927893

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	76.4		1.43	1	11/22/2016 14:48	WG927837

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.9		1	11/18/2016 13:54	WG927893

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	66.1		1.27	1	11/22/2016 14:51	WG927837

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	70.9		1	11/18/2016 13:54	WG927893

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	54.9		1.41	1	11/22/2016 14:54	WG927837

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	69.9		1	11/18/2016 13:54	WG927893

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	57.3		1.43	1	11/22/2016 14:56	WG927837

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	74.9		1	11/18/2016 13:54	WG927893

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	92.4		1.33	1	11/22/2016 14:59	WG927837

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	71.4		1	11/18/2016 13:54	WG927893

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	103		1.40	1	11/22/2016 15:02	WG927837

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.4		1	11/18/2016 13:54	WG927893

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	94.6		1.29	1	11/22/2016 15:04	WG927837

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.7		1	11/18/2016 13:54	WG927893

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	91.3		1.21	1	11/22/2016 15:07	WG927837

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	58.6		1	11/18/2016 13:54	WG927893

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	85.3		1.71	1	11/22/2016 15:15	WG927837

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	69.6		1	11/18/2016 10:56	WG927894

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	106		1.44	1	11/22/2016 15:17	WG927837

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	72.9		1	11/18/2016 10:56	WG927894

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	65.7		1.37	1	11/22/2016 15:20	WG927837

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.3		1	11/18/2016 10:56	WG927894

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	122		1.31	1	11/22/2016 15:23	WG927837

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	62.7		1	11/18/2016 10:56	WG927894

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	52.8		1.59	1	11/22/2016 15:25	WG927837

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.4		1	11/18/2016 10:56	WG927894

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	88.1		1.28	1	11/22/2016 15:28	WG927837

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	63.9		1	11/18/2016 10:56	WG927894

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	90.7		1.57	1	11/22/2016 15:31	WG927837

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	73.0		1	11/18/2016 10:56	WG927894

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	84.5		1.37	1	11/22/2016 15:33	WG927837

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.3		1	11/18/2016 10:56	WG927894

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	50.9		1.28	1	11/22/2016 15:36	WG927837

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	69.4		1	11/18/2016 10:56	WG927894

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	73.9		1.44	1	11/22/2016 15:39	WG927837

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.1		1	11/18/2016 10:56	WG927894

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	89.9		1.33	1	11/22/2016 15:47	WG927837

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	65.9		1	11/18/2016 10:45	WG927895

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	62.7		1.52	1	11/22/2016 15:57	WG927838

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	63.2		1	11/18/2016 10:45	WG927895

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	66.4		1.58	1	11/22/2016 16:10	WG927838

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.6		1	11/18/2016 10:45	WG927895

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	76.6		1.31	1	11/22/2016 16:18	WG927838

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	69.4		1	11/18/2016 10:45	WG927895

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	49.4		1.44	1	11/22/2016 16:21	WG927838

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	66.9		1	11/18/2016 10:45	WG927895

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	71.3		1.49	1	11/22/2016 16:24	WG927838

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	73.6		1	11/18/2016 10:45	WG927895

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	73.1		1.36	1	11/22/2016 16:26	WG927838

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	33.0		1	11/18/2016 10:45	WG927895

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	18.3		3.03	1	11/22/2016 16:29	WG927838

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.4		1	11/18/2016 10:45	WG927895

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	107		1.24	1	11/22/2016 16:32	WG927838

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.2		1	11/18/2016 10:45	WG927895

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	63.7		1.23	1	11/22/2016 16:34	WG927838

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	68.8		1	11/18/2016 10:45	WG927895

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	49.3		1.45	1	11/22/2016 16:37	WG927838

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	67.1		1	11/18/2016 10:21	WG927896

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	107		1.49	1	11/22/2016 16:39	WG927838

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.0		1	11/18/2016 10:21	WG927896

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	91.1		1.18	1	11/22/2016 16:42	WG927838

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	72.0		1	11/18/2016 10:21	WG927896

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	110		1.39	1	11/22/2016 16:50	WG927838

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	69.7		1	11/18/2016 10:21	WG927896

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	122		1.44	1	11/22/2016 16:53	WG927838

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	68.5		1	11/18/2016 10:21	WG927896

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	134		1.46	1	11/22/2016 16:56	WG927838

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	47.9		1	11/18/2016 10:21	WG927896

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	61.0		2.09	1	11/22/2016 16:58	WG927838

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.8		1	11/18/2016 10:21	WG927896

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	67.4		1.22	1	11/22/2016 17:01	WG927838

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.7		1	11/18/2016 10:21	WG927896

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	103		1.10	1	11/22/2016 17:03	WG927838

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.7		1	11/18/2016 10:21	WG927896

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	129		1.11	1	11/22/2016 17:06	WG927838

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.9		1	11/18/2016 10:21	WG927896

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	387		1.15	1	11/22/2016 17:08	WG927838

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	69.4		1	11/18/2016 10:12	WG927897

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	47.7		1.44	1	11/22/2016 17:37	WG927839

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.7		1	11/18/2016 10:12	WG927897

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	76.3		1.30	1	11/22/2016 17:40	WG927839

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	74.9		1	11/18/2016 10:12	WG927897

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	81.1		1.34	1	11/22/2016 17:43	WG927839

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	66.5		1	11/18/2016 10:12	WG927897

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	82.4		1.50	1	11/22/2016 17:45	WG927839

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.5		1	11/18/2016 10:12	WG927897

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	97.3		1.18	1	11/22/2016 17:53	WG927839

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.4		1	11/18/2016 10:12	WG927897

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	128		1.23	1	11/22/2016 17:56	WG927839

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	55.6		1	11/18/2016 10:12	WG927897

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	102		1.80	1	11/22/2016 17:58	WG927839

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.3		1	11/18/2016 10:12	WG927897

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	113		1.25	1	11/22/2016 18:01	WG927839

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.0		1	11/18/2016 10:12	WG927897

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	107		1.28	1	11/22/2016 18:04	WG927839

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.1		1	11/18/2016 10:12	WG927897

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	144		1.33	1	11/22/2016 18:06	WG927839

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.8		1	11/18/2016 09:56	WG927898

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	170		1.32	1	11/22/2016 18:09	WG927839

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	59.4		1	11/18/2016 09:56	WG927898

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	78.8		1.68	1	11/22/2016 18:12	WG927839

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.7		1	11/18/2016 09:56	WG927898

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	98.0		1.30	1	11/22/2016 18:14	WG927839

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	73.0		1	11/18/2016 09:56	WG927898

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	88.2		1.37	1	11/22/2016 18:17	WG927839

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	72.9		1	11/18/2016 09:56	WG927898

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	115		1.37	1	11/22/2016 18:25	WG927839

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.5		1	11/18/2016 09:56	WG927898

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	242		1.27	1	11/22/2016 18:28	WG927839

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.9		1	11/18/2016 09:56	WG927898

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	342		1.19	1	11/22/2016 18:30	WG927839

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	69.3		1	11/18/2016 09:56	WG927898

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	76.7		1.44	1	11/22/2016 18:33	WG927839

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.5		1	11/18/2016 09:56	WG927898

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	79.8		1.32	1	11/22/2016 18:36	WG927839

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	72.7		1	11/18/2016 09:56	WG927898

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	85.5		1.38	1	11/22/2016 17:24	WG927839

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	56.2		1	11/18/2016 09:39	WG927900

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	117		1.78	1	11/19/2016 02:34	WG928010

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.8		1	11/18/2016 09:39	WG927900

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	139		1.22	1	11/19/2016 02:37	WG928010

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	70.6		1	11/18/2016 09:39	WG927900

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	111		1.42	1	11/19/2016 02:45	WG928010

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.4		1	11/18/2016 09:39	WG927900

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	134		1.24	1	11/19/2016 02:22	WG928010

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.4		1	11/18/2016 09:39	WG927900

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	147		1.24	1	11/19/2016 02:48	WG928010

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.8		1	11/18/2016 09:39	WG927900

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	73.3		1.18	1	11/19/2016 02:50	WG928010

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.3		1	11/18/2016 09:39	WG927900

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	197		1.17	1	11/19/2016 02:53	WG928010

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.9		1	11/18/2016 09:39	WG927900

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	62.0		1.32	1	11/19/2016 02:55	WG928010

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.2		1	11/18/2016 09:39	WG927900

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	89.4		1.19	1	11/19/2016 02:58	WG928010

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.8		1	11/18/2016 09:39	WG927900

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	122		1.24	1	11/19/2016 03:01	WG928010

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.2		1	11/18/2016 13:08	WG928012

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	323		1.28	1	11/19/2016 03:03	WG928010

Method Blank (MB)

(MB) R3179299-1 11/18/16 13:54

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000200			

L873507-09 Original Sample (OS) • Duplicate (DUP)

(OS) L873507-09 11/18/16 13:54 • (DUP) R3179299-3 11/18/16 13:54

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	82.7	83.3	1	0.649		5

Laboratory Control Sample (LCS)

(LCS) R3179299-2 11/18/16 13:54

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	99.9	85.0-115	

Method Blank (MB)

(MB) R3179294-1 11/18/16 10:56

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000500			

L873507-20 Original Sample (OS) • Duplicate (DUP)

(OS) L873507-20 11/18/16 10:56 • (DUP) R3179294-3 11/18/16 10:56

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	75.1	76.7	1	2.12		5

Laboratory Control Sample (LCS)

(LCS) R3179294-2 11/18/16 10:56

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3179293-1 11/18/16 10:45

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000800			

L873507-25 Original Sample (OS) • Duplicate (DUP)

(OS) L873507-25 11/18/16 10:45 • (DUP) R3179293-3 11/18/16 10:45

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	66.9	66.3	1	0.943		5

Laboratory Control Sample (LCS)

(LCS) R3179293-2 11/18/16 10:45

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3179292-1 11/18/16 10:21

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000800			

L873507-31 Original Sample (OS) • Duplicate (DUP)

(OS) L873507-31 11/18/16 10:21 • (DUP) R3179292-3 11/18/16 10:21

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	67.1	68.3	1	1.74		5

Laboratory Control Sample (LCS)

(LCS) R3179292-2 11/18/16 10:21

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.3	101	85.0-115	

Method Blank (MB)

(MB) R3179291-1 11/18/16 10:12

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000700			

L873507-48 Original Sample (OS) • Duplicate (DUP)

(OS) L873507-48 11/18/16 10:12 • (DUP) R3179291-3 11/18/16 10:12

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	80.3	80.0	1	0.391		5

Laboratory Control Sample (LCS)

(LCS) R3179291-2 11/18/16 10:12

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3179290-1 11/18/16 09:56

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000900			

L873507-53 Original Sample (OS) • Duplicate (DUP)

(OS) L873507-53 11/18/16 09:56 • (DUP) R3179290-3 11/18/16 09:56

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	76.7	76.8	1	0.111		5

Laboratory Control Sample (LCS)

(LCS) R3179290-2 11/18/16 09:56

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3179289-1 11/18/16 09:39

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000700			

L873507-65 Original Sample (OS) • Duplicate (DUP)

(OS) L873507-65 11/18/16 09:39 • (DUP) R3179289-3 11/18/16 09:39

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	80.4	80.5	1	0.196		5

Laboratory Control Sample (LCS)

(LCS) R3179289-2 11/18/16 09:39

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3179324-1 11/18/16 13:08

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000300			

L873314-08 Original Sample (OS) • Duplicate (DUP)

(OS) L873314-08 11/18/16 13:08 • (DUP) R3179324-3 11/18/16 13:08

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	81.8	84.6	1	3.35		5

Laboratory Control Sample (LCS)

(LCS) R3179324-2 11/18/16 13:08

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3180063-1 11/22/16 14:22

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chromium	U		0.14	1.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3180063-2 11/22/16 14:25 • (LCSD) R3180063-3 11/22/16 14:27

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chromium	100	100	96.2	100	96	80-120			4	20

L873507-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L873507-01 11/22/16 14:30 • (MS) R3180063-6 11/22/16 14:43 • (MSD) R3180063-7 11/22/16 14:46

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium	143	84.5	197	211	79	88	1	75-125			7	20

Method Blank (MB)

(MB) R3180064-1 11/22/16 15:50

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
Chromium	U		0.14	1.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3180064-2 11/22/16 15:52 • (LCSD) R3180064-3 11/22/16 15:54

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Chromium	100	103	106	103	106	80-120			2	20

L873507-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L873507-21 11/22/16 15:57 • (MS) R3180064-6 11/22/16 16:05 • (MSD) R3180064-7 11/22/16 16:08

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chromium	152	62.7	214	218	100	102	1	75-125			2	20

Method Blank (MB)

(MB) R3180065-1 11/22/16 17:11

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chromium	U		0.14	1.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3180065-2 11/22/16 17:14 • (LCSD) R3180065-3 11/22/16 17:22

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chromium	100	102	99.4	102	99	80-120			2	20

L873507-60 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L873507-60 11/22/16 17:24 • (MS) R3180065-6 11/22/16 17:32 • (MSD) R3180065-7 11/22/16 17:35

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium	138	85.5	223	220	100	97	1	75-125			1	20

Method Blank (MB)

(MB) R3179466-1 11/19/16 02:14

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chromium	U		0.14	1.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3179466-2 11/19/16 02:17 • (LCSD) R3179466-3 11/19/16 02:19

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chromium	100	88.2	94.0	88	94	80-120			6	20

L873507-64 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L873507-64 11/19/16 02:22 • (MS) R3179466-6 11/19/16 02:29 • (MSD) R3179466-7 11/19/16 02:32

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium	124	134	251	259	95	100	1	75-125			3	20

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Rec.	Recovery.

Qualifier	Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ACCREDITATIONS & LOCATIONS

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

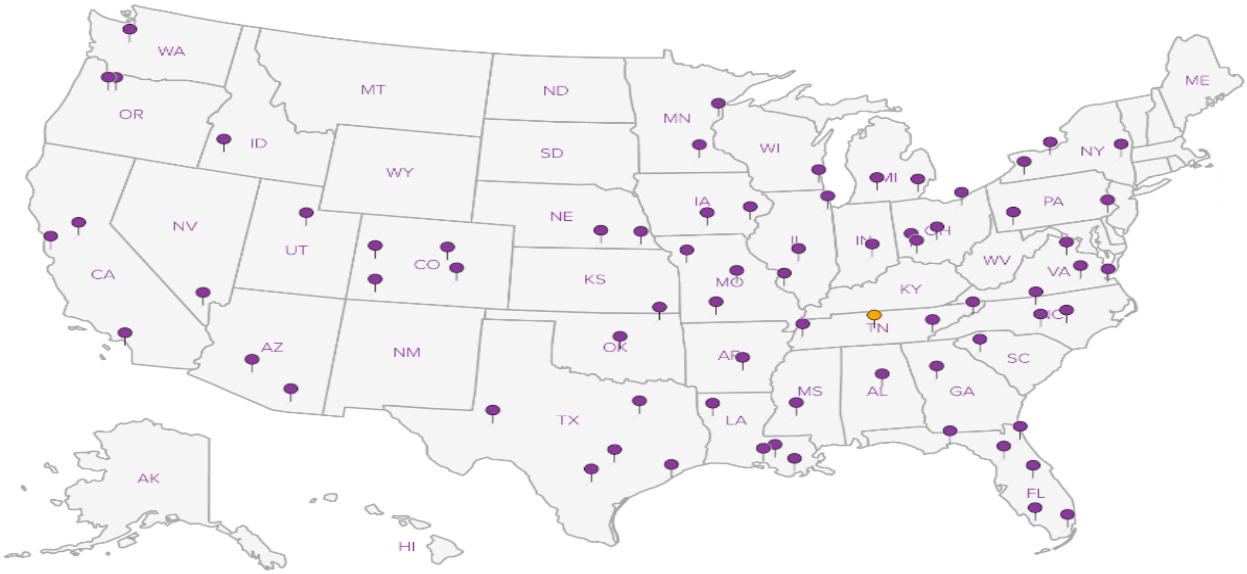
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1.] Drinking Water [2.] Underground Storage Tanks [3.] Aquatic Toxicity [4.] Chemical/Microbiological [5.] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Chain of Custody Page 20 of 40

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon
Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:
Collected by (signature):
Packed on Ice: N

Rush? (Lab MUST Be Notified)
___ Same Day..... 200%
___ Next Day..... 100%
___ Two Day..... 50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative: Chromium, HOLD

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode: portenvtx (lab use only)
Template/Prelogin:
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
OOOP-75:0	Grab	SS		10/21/16		1		X	L873507-01	
OOOP-75:18	Grab	SS				1		X	-02	
OOOP-75:30	Grab	SS				1		X	-03	
OOOP-95:0	Grab	SS				1		X	04	
↓ -95:18	Grab	SS				1		X	05	
↓ -95:30	Grab	SS				1		X	06	
OOOT-58:0	Grab	SS				1		X	07	
↓ -58:18	Grab	SS				1		X	08	
↓ -58:30	Grab	SS		↓		1		X	09	

11/18/16

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____
Flow _____ Other _____

Remarks:

Relinquished by: (Signature)	Date: 10/21	Time: 1200	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb / Bottles Received: 550 / Condition: JW7 COCSE (lab use only)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 900 / pH Checked: / NCF:

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon
Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:
Collected by (signature):
Packed on Ice: N Y

Rush? (Lab MUST Be Notified)
___ Same Day..... 200%
___ Next Day..... 100%
___ Two Day..... 50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
OOOVB5:0	Grab	SS		10/19/16		1		X	L873507-10	
↓ -135:18	Grab	SS				1		X	-11	
OOOW10:0	Grab	SS				1		X		
↓ :18	Grab	SS				1		X		
↓ :30	Grab	SS				1		X		
OOA115:0	Grab	SS				1		X		
↓ :18	Grab	SS				1		X		
↓ :30	Grab	SS				1		X		
OOB-87:0	Grab	SS				1		X		

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Chain of Custody Page 21 of 40

Prepared by:
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Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10/21/16	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____
Temp: Amb
Bottles Received: 350
Date: 10-22-16
Time: 900
Condition: (lab use only) 3w7 COC'd
pH Checked:
NCF:

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team

Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS

City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404

Client Project #: Mt. Vernon

ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins

Site/Facility ID#: Mt. Vernon

P.O.#:

Collected by (signature):

Packed on Ice N Y

Rush? (Lab MUST Be Notified)
___ Same Day..... 200%
___ Next Day..... 100%
___ Two Day..... 50%

Date Results Needed:

Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 3 of 4

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
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Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
OOB-87:18	Grab	SS		10/19/16		1		X		~~267860~~
↓ -87:30	Grab	SS				1		X		
OOC-70:0	Grab	SS				1		X		
↓ -70:18	Grab	SS				1		X		
↓ 70:30	Grab	SS				1		X		
OOF-75:0	Grab	SS				1		X	L873607 - N	
↓ -75:18	Grab	SS				1	X			~~64~~
↓ -75:30	Grab	SS				1	X			~~65~~
OOF-94:0	Grab	SS		↓		1	X			~~66~~

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date: 10/21/16	Time: 1200	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____	Condition: (lab use only) JW7 COC52
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: AMB / Bottles Received: 158	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 900	pH Checked: / NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team

Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS

City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404

Client Project #: Mt. Vernon

ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins

Site/Facility ID#: Mt. Vernon

P.O.#:

Collected by (signature): CW

Packed on Ice: N

Rush? (Lab MUST Be Notified)
___ Same Day.....200%
___ Next Day.....100%
___ Two Day.....50%

Date Results Needed:

Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
ODF-94:18	Grab	SS		10/9/16		1		X	LRT3507-16	~~L979~~
↓ -94:30	Grab	SS				1		X	17	
ODG130:0	Grab	SS				1		X		
↓ :18	Grab	SS				1		X		
↓ :30	Grab	SS				1		X		
~~ODG130:0~~ ODI145:0	Grab	SS				1		X	12	
~~↓ 130:18~~ ↓ 145:18	Grab	SS				1		X	13	
~~↓ 130:30~~ ↓ 145:30	Grab	SS				1		X	15	
ODJ15:18	Grab	SS				1		X		

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Chain of Custody Page 23 of 40

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode: portenvtx (lab use only)

Template/Prelogin

Shipped Via:

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10/21/16	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: Amb | Bottles Received: 358

Date: 10-22-16 | Time: 900

Condition: JW7 COCSI (lab use only)

pH Checked: | NCF:

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:

Collected by (signature):
Packed on Ice N Y

Rush? (Lab MUST Be Notified)
___ Same Day.....200%
___ Next Day.....100%
___ Two Day.....50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 24 of 40

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
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Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode: portenvtx (lab use only)
Template/Prelogin:
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
00J15:18	Grab	SS		10/19/16		1		X		~~L973~~
↓ :30	Grab	SS				1		X		
00J32:0	Grab	SS				1		X		
↓ :18	Grab	SS				1		X		
↓ :30	Grab	SS				1		X		
00J95:0	Grab	SS				1		X	L873507-18	
00J95:18	Grab	SS				1		X	19	
00J95:30	Grab	SS				1		X	20	
00K116:0	Grab	SS		↓		1		X		

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐	Condition:	(lab use only)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb	Bottles Received: 358	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16	Time: 900	pH Checked: NCF:

SW1 COC57

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team

Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS

City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404

Client Project #: Mt. Vernon

ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins

Site/Facility ID#: Mt. Vernon

P.O.#:

Collected by (signature):

Packed on Ice: N

Rush? (Lab MUST Be Notified)
____ Same Day..... 200%
____ Next Day..... 100%
____ Two Day..... 50%

Date Results Needed:

Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 25 of 40

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode: portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
00L116:12	Grab	SS		10/19/16		1		X		~~L873506-20~~
00L52:0	Grab	SS				1		X	L873507-21	
:18	Grab	SS				1		X	22	
:30	Grab	SS				1		X	23	
00L72:0	Grab	SS				1		X	24	
:18	Grab	SS				1		X	25	
:30	Grab	SS				1		X	26	
00M89:0	Grab	SS				1	X			69
:18	Grab	SS				1	X			70

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____	Condition: (lab use only)
	10/21/16	1500			JW1 cas1
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb / Bottles Received: 358	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 900	pH Checked: / NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team

Email to: ahopkins@pel-tx.com

Analysis/Container/Preservative

Chain of Custody
Page 2 of 4

Prepared by:

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12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

Project Description: Mt. Vernon CS		City/State Collected: Mt. Vernon	
Phone: 713-805-2994 FAX: 832-295-6404	Client Project #: Mt. Vernon	ESC Key: PORTNOYENV-WAHG	
Collected by: Alan Hopkins	Site/Facility ID#: Mt. Vernon	P.O.#:	
Collected by (signature): Packed on Ice N Y	Rush? (Lab MUST Be Notified) ___ Same Day.....200% ___ Next Day.....100% ___ Two Day.....50%	Date Results Needed: Email? __No ✓Yes FAX? ✓No __Yes	No. of Cntrs

CoCode: portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
00W16:18	Grab	SS		10/20/16		1		X		637860-
↓ :30	Grab	SS				1		X		
00W38:0	Grab	SS				1		X		
↓ :18	Grab	SS				1		X		
↓ :30	Grab	SS				1		X		
00W97:0	Grab	SS				1	X			77
↓ :18	Grab	SS				1	X			78
↓ :30	Grab	SS				1	X			79
00W148:0	Grab	SS		↓		1		X	L873507-27	

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date: 10/21/16	Time: 1200	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐		Condition:	(lab use only) 3w1 cass
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: AMB	Bottles Received: 358		
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16	Time: 900	pH Checked:	NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team

Email to: ahopkins@pel-tx.com

Project Description: Mt. Vernon CS

City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404

Client Project #: Mt. Vernon

ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins

Site/Facility ID#: Mt. Vernon

P.O.#:

Collected by (signature):

Packed on Ice: N

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
00W148:18	Grab	SS		10/5/16		1		X	LB35507-28	~~40~~
↓ :30	Grab	SS				1		X	29	
00Y4 :0	Grab	SS				1		X		
↓ :10	Grab	SS				1		X		
↓ :30	Grab	SS				1		X		
00Z5:0	Grab	SS				1		X		
:18	Grab	SS				1	X			40
[redacted] 0133:0	Grab	SS				1	X	X		41
↓ :18	Grab	SS		↓		1		X		

Chain of Custody Page 3 of 4

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode: portenvtx (lab use only)
Template/Prelogin:
Shipped Via:

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐	Condition: (lab use only)
	10/5/16	1200			JW1 cooSi
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: AMB / Bottles Received: 350	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 900	pH Checked: / NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team

Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS

City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404

Client Project #: Mt. Vernon

ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins

Site/Facility ID#: Mt. Vernon

P.O.#:

Collected by (signature):
Packed on Ice N

Rush? (Lab MUST Be Notified)
___ Same Day..... 200%
___ Next Day..... 100%
___ Two Day..... 50%

Date Results Needed:

Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 37 of 46

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin:
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
0J-52:18	Grab	SS		10/18/16		1	X			~~L873507-1~~
↓ :30	Grab	SS				1	X			~~127~~
0M128:0	Grab	SS				1	X			~~129~~
↓ :18	Grab	SS				1	X			~~125~~
↓ :30	Grab	SS				1	X			~~126~~
0M134:0	Grab	SS				1		X		
↓ :18	Grab	SS				1		X		
↓ :30	Grab	SS				1		X		
0O145:0	Grab	SS				1		X	L873507-17	30

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐	Condition: (lab use only)
	10/21/16	1200			JW1 COC52
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb / Bottles Received: 358	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 900	pH Checked: / NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team

Email to: ahopkins@pei-tx.com

Analysis/Container/Preservative

Chain of Custody Page 38 of 40

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
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Phone (800) 767-5859
FAX (615) 758-5859

Project Description: Mt. Vernon CS

City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404

Client Project #: Mt. Vernon

ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins

Site/Facility ID#: Mt. Vernon

P.O.#:

CoCode portenvtx (lab use only)

Template/Prelogin

Shipped Via:

Collected by (signature):

Packed on Ice: N

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%

Date Results Needed:

Email? __No ✓Yes
FAX? ✓No __Yes

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
DO145:18	Grab	SS		10/19/16		1		X	1873507 -T3	66786-31
↓ :30	Grab	SS				1		X	32	
DS-47:0	Grab	SS				1		X		
:18	Grab	SS				1		X		
↓ :30	Grab	SS				1		X		
DS-58:0	Grab	SS				1	X			127
:18	Grab	SS				1	X			128
↓ :30	Grab	SS				1	X			129
DW-33:0	Grab	SS		↓		1		X	-33	

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____	Condition:	(lab use only)
	10/21/16	1300				SW cocs2
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb	Bottles Received: 358	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16	Time: 9W	pH Checked: NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team

Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS | City/State Collected: Mt. Vernon

Phone: 713-805-2994 FAX: 832-295-6404 | Client Project #: Mt. Vernon | ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins | Site/Facility ID#: Mt. Vernon | P.O.#:

Collected by (signature): Packed on Ice: N Y

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
OW-33:19	Grab	SS		10/18/16		1		X	L873507 34	167860-
↓ :30	Grab	SS				1		X	35	
OX-54:0	Grab	SS				1		X		
↓ :18	Grab	SS				1		X		
↓ :30	Grab	SS				1		X		
OZ-121:0	Grab	SS				1		X		
↓ :18	Grab	SS				1		X		
↓ :30	Grab	SS				1		X		
AA-70:0	Grab	SS		↓		1		X		

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Chain of Custody Page 34 of 40

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode: portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp:	Bottles Received:	Condition: (lab use only)
Amb	358	JW1 COC#1
Date: 10-22-16	Time: 9:00	pH Checked: / NCF:

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon
Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:
Collected by (signature):
Packed on Ice N Y
Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 1 of 1

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
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Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
AA-70:10	Grab	SS		10/18/16		1		X		~~667860-~~
↓ +30	Grab	SS				1		X		
AC-81:0	Grab	SS				1	X			T30
:18	Grab	SS				1	X			T31
:30	Grab	SS				1	X	X		T32
AC124:0	Grab	SS				1		X	L873507-36	
↓ :18	Grab	SS				1			-37	
	Grab	SS				1				
	Grab	SS				1				

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐	Condition: (lab use only)
	10/21/16	1300			JW7
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb	Bottles Received: 354
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16	Time: 900
				pH Checked:	NCF: X

10-085 10-084 10-083 10-082 10-081 10-080

F163

Chain of Custody Page 1 of 40

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team

Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS

City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404

Client Project #: Mt. Vernon

ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins

Site/Facility ID#: Mt. Vernon

P.O.#:

Collected by (signature):

Packed on Ice: N

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%

Date Results Needed:

Email? _No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
AD105:0	Grab	SS		10-18-16		1	X			~~01~~
:18	Grab	SS				1	X			~~02~~
:30	Grab	SS				1	X			~~03~~
AH-62:0	Grab	SS				1		X	L873507-38	~~38~~
:18	Grab	SS				1		X	39	~~39~~
:30	Grab	SS				1		X	40	~~40~~
AI107:0	Grab	SS				1		X		
:18	Grab	SS				1		X		
:30	Grab	SS				1		X		

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10-21-16	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ✓FedEx ☐ Courier ☐ _____

Temp: Amb | Bottles Received: 358m

Date: 10-22-16 | Time: 9W

Condition: (lab use only) JW1 corsi

pH Checked: | NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team

Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS

City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404

Client Project #: Mt. Vernon

ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins

Site/Facility ID#: Mt. Vernon

P.O.#:

Collected by (signature):

Packed on Ice: N

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%

Date Results Needed:

Email? __No ✓Yes

FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
AQ-79 : 18	Grab	SS		10-18-16		1	X			3[illegible]-11
AQ-79 : 30	Grab	SS				1	X			-A
AQ-86 : 0	Grab	SS				1	X			-A
↓ : 18	Grab	SS				1	X			-11
↓ : 30	Grab	SS				1	X			-16
AS117 : 0	Grab	SS				1		X	L873507-41	
↓ : 18	Grab	SS				1		X	-42	
↓ : 30	Grab	SS				1		X	-43	
AU-65 : 0	Grab	SS		↓		1		X	-44	

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Chain of Custody Page 3 of 40

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode: portenvtx (lab use only)

Template/Prelogin

Shipped Via:

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10-21-16	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐

Temp: Amb

Bottles Received: 38

Date: 10-22-16

Time: 900

Condition: (lab use only) JW COC

pH Checked:

NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon
Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:
Collected by (signature):
Packed on Ice: N

Rush? (Lab MUST Be Notified)
____ Same Day..... 200%
____ Next Day..... 100%
____ Two Day..... 50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
AU-65:18	Grab	SS		10-18-16		1		X	L873507-45	
AU-65:30	Grab	SS		↓		1		X	46	
AU 104:0	Grab	SS				1		X		
↓ :18	Grab	SS				1		X		
↓ :30	Grab	SS				1		X		
AV-74:0	Grab	SS				1		X		
↓ :18	Grab	SS				1		X		
↓ :30	Grab	SS				1		X		
AZ-76:0	Grab	SS		↓		1	X			

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Analysis/Container/Preservative

Chain of Custody Page 1 of 1

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10-21-16	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____
Temp: Amb
Bottles Received: 359
Date: 10-22-16
Time: 900

Condition: (lab use only) SW7 CCCSS
pH Checked:
NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon
Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:
Collected by (signature):
Packed on Ice: N
Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%
Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 7 of 40

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
BK-68 ; 18	Grab	SS		10/18/16		1		X		L873501-46
BK-68 ; 30	Grab	SS				1		X		47
BM102 ; 0	Grab	SS				1		X		48
↓ ; 18	Grab	SS				1		X		49
↓ ; 30	Grab	SS				1		X		~~50~~
BR85 ; 0	Grab	SS				1	X			~~51~~
; 18	Grab	SS				1	X			52
; 30	Grab	SS				1	X			
BR88 ; 0	Grab	SS		↓		1		X		

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10-21-16	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____
Temp: Amb
Bottles Received: 358
Date: 10-22-16
Time: 900

Condition: (lab use only) JW7 cocsc
pH Checked:
NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:

Collected by (signature):
Packed on Ice: N

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 9 of 40

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
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Phone (800) 767-5859
FAX (615) 758-5859

CoCode: portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
CO-87 ; 18	Grab	SS		10-18-16		1	X			L873496-35
CE 80 ; 0	Grab	SS		10-18-16		1		X		
; 16	Grab	SS				1		X		
; 30	Grab	SS				1		X		
CE 84 ; 0	Grab	SS				1		X		
; 18	Grab	SS				1		X	L873507-50	
; 30	Grab	SS				1		X	-51	
CE 94 ; 0	Grab	SS				1		X	52	
; 18	Grab	SS				1		X	53	

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

pH _____ Temp _____
Flow _____ Other _____

Remarks:

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10-21-16	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
	10-22-16	9W	

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____
Temp: A mb
Bottles Received: 358
Condition: (lab use only) JW7 CCSI
Date: 10-22-16
Time: 9W
pH Checked:
NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:

Collected by (signature):
Packed on Ice: N (Y)

Rush? (Lab MUST Be Notified)
____ Same Day..... 200%
____ Next Day..... 100%
____ Two Day..... 50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 10 of 40

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode: portenvtx (lab use only)
Template/Prelogin:
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
CF-94 : 30	Grab	SS		10-18-16		1		X	L873507-54	76776-
CH-72 : 0	Grab	SS				1		X	55	
↓ : 18	Grab	SS				1		X	56	
↓ : 30	Grab	SS				1		X	57	
CH-78 : 0	Grab	SS				1		X		
↓ : 18	Grab	SS				1		X		
↓ : 30	Grab	SS				1		X		
CJ-82 : 0	Grab	SS				1	X			76
↓ : 18	Grab	SS		↓		1	X			77

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____	Condition:	(lab use only)
	10-21-16	1200				SW7 COC52
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb	Bottles Received: 338	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16	Time: 900	pH Checked: NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team

Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS

City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404

Client Project #: Mt. Vernon

ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins

Site/Facility ID#: Mt. Vernon

P.O.#:

Collected by (signature):

Packed on Ice: N Y

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%

Date Results Needed:

Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
CM82:0	Grab	SS		10-18-16		1	X	X		~~L873507-57~~
:18	Grab	SS				1	X	X		
:30	Grab	SS				1	X	X		
CN-59:0	Grab	SS				1	X	X	L873507-58	
:18	Grab	SS				1	X	X	59	
:30	Grab	SS				1	X	X	60	
CO-67:0	Grab	SS				1	X	X	61	
:18	Grab	SS				1	X	X	62	
CO-73:0	Grab	SS				1	X	X		

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Chain of Custody Page 1 of 1

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10-21-16	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
			Spring

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____

Condition: (lab use only) SW1 COC51

Temp:	Bottles Received:	pH Checked:	NCF:
Amb	358		

Date: 10-22-16 Time: 900

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon
Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:
Collected by (signature):
Packed on Ice N
Rush? (Lab MUST Be Notified)
___ Same Day.....200%
___ Next Day.....100%
___ Two Day.....50%
Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 12 of 40

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
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Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
CO-73 :18	Grab	SS		10-18-16		1		X		~~62~~
CO-78 :0	Grab	SS				1	X			~~75~~
:18	Grab	SS				1	X			~~76~~
:30	Grab	SS				1	X			~~40~~
CS88 :0	Grab	SS				1		X		
:18	Grab	SS				1		X		
:30	Grab	SS				1		X		
CU-65 :0	Grab	SS				1		X	L873507-~~64~~	63
:18	Grab	SS				1		X	~~65~~	64

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____
Flow _____ Other _____

Remarks:

Relinquished by: (Signature)	Date: 10-21-16	Time: 1200	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐	Condition: JW7 COCSI (lab use only)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb / Bottles Received: 358	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 900	pH Checked: / NCF: Y

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon
Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:
Collected by (signature):
Packed on Ice: N
Rush? (Lab MUST Be Notified)
____ Same Day 200%
____ Next Day 100%
____ Two Day 50%
Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Chain of Custody Page 17 of 40

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
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Phone (800) 767-5859
FAX (615) 758-5859

CoCode: portenvtx (lab use only)
Template/Prelogin:
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
CU-65 : 30	Grab	SS		10-18-16		1		X	L873507-65	~~4~~ 5
CU-71 : 0	Grab	SS		10-19-16		1		X		
↓ : 18	Grab	SS		↓		1		X		
↓ : 30	Grab	SS		↓		1		X		
CU72 : 0	Grab	SS		↓		1	X			4
↓ : 18	Grab	SS		↓		1	X			4
↓ : 30	Grab	SS		↓		1	X			4
CU-75 : 0	Grab	SS		↓		1	X			4
↓ : 18	Grab	SS		↓		1	X			4

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other: _____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐	Condition: (lab use only)
	10-21-16	1200		Temp: Amb / Bottles Received: 558	JW7 LOC51
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)		
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 9W	pH Checked: / NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon
Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:
Collected by (signature):
Packed on Ice: N (Y)

Rush? (Lab MUST Be Notified)
___ Same Day..... 200%
___ Next Day..... 100%
___ Two Day..... 50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
OE61:30	Grab	SS		10-19-16		1	X			~~L873507-44~~
OE66:0	Grab	SS				1		X		
:18	Grab	SS				1		X		
:30	Grab	SS				1		X		
OH-65:0	Grab	SS				1		X		
OI57:0	Grab	SS				1		X		
:18	Grab	SS				1		X		
:30	Grab	SS				1		X		
OI72:0	Grab	SS				1		X	L873507-66	

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____	Condition: (lab use only)
	10-21-16	1200			JW7
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb / Bottles Received: 35	LOG1
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 90	pH Checked: / NCF: X

Chain of Custody Page 15 of 40

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team

Email to: ahopkins@pei-tx.com

Project Description: Mt. Vernon CS

City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404

Client Project #: Mt. Vernon

ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins

Site/Facility ID#: Mt. Vernon

P.O.#:

Collected by (signature):

Packed on Ice N

Rush? (Lab MUST Be Notified)
____ Same Day.....200%
____ Next Day.....100%
____ Two Day.....50%

Date Results Needed:

Email? __No ✓Yes
FAX? ✓No __Yes

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
DI72:18	Grab	SS		10-19-16		1		X	L873507-67	~~867865~~
:30	Grab	SS				1		X	68	
E-63:0	Grab	SS				1	X			~~70~~
:18	Grab	SS				1	X			~~71~~
:30	Grab	SS				1	X			~~72~~
G-57:0	Grab	SS				1		X		
:18	Grab	SS				1		X		
:30	Grab	SS				1		X		
G119:0	Grab	SS				1	X			~~73~~

Analysis/Container/Preservative

Chain of Custody Page 16 of 16

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Flow _____ Other _____

Remarks:

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10-21-16	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐

Temp: 1.1 m b

Bottles Received: 358

Date: 10-22-16

Time: 9C

Condition: (lab use only) JW1 COC52

pH Checked:

NCF: X

Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pel-tx.com

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon

Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG

Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:

Collected by (signature):
Packed on Ice N

Rush? (Lab MUST Be Notified)
___ Same Day.....200%
___ Next Day.....100%
___ Two Day.....50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
G119 ; 18	Grab	SS		10/19/16		1	X			1673[illegible] 54
; 30	Grab	SS				1	X			55
G134 ; 0	Grab	SS				1		X		
↓ ; 12	Grab	SS				1		X		
J-41 ; 0	Grab	SS				1		X	L873507-69	
; 18	Grab	SS				1		X	70	
; 30	Grab	SS				1		X	71	
N-67 ; 0	Grab	SS				1	X			72
; 18	Grab	SS		↓		1	X			73

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Chain of Custody Page 17 of 40

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode portenvtx (lab use only)
Template/Prelogin
Shipped Via:

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10/21/16	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____
Temp: AMb
Bottles Received: 55B
Date: 10-22-16
Time: 900
Condition: (lab use only) SW1 LOC1
pH Checked:
NCF: X

Andy Vann

From: Tom Mellette
Sent: Wednesday, November 16, 2016 8:44 PM
To: Andy Vann
Subject: Fwd: Part 2: Additional Analysis: ESC Lab Sciences Report for MT. VERNON Mt. Vernon CS L867860
Attachments: L867860 Archived Locations PART 2.xlsx; ATT00001.htm

Three more sites added to relog.

Thanks, Tom
Sent from iPhone

Begin forwarded message:

> **From:** Cynthia Moon <cynthiam@epi-wa.com>
> **Date:** November 16, 2016 at 6:10:57 PM CST
> **To:** "tmellette@esclabsciences.com" <tmellette@esclabsciences.com>
> **Cc:** "Alan Hopkins - Portnoy (PRT)" <ahopkins@pei-tx.com>, Eric Koltes <erick@epi-wa.com>
> **Subject: Re: Part 2: Additional Analysis: ESC Lab Sciences Report for MT. VERNON Mt. Vernon CS L867860**
>
> Sorry Tom – I hit send too quickly. I have updated the spreadsheet with three additional samples (highlighted yellow), changing the total to 71 for analysis. Please let me know if you have any questions. Thank you!
>
> ---
>
> **From:** Cynthia Moon <cynthiam@epi-wa.com>
> **Date:** Wednesday, November 16, 2016 at 2:52 PM
> **To:** Jarred Willis <tmellette@esclabsciences.com>
> **Cc:** "Alan Hopkins - Portnoy (PRT)" <ahopkins@pei-tx.com>, Eric Koltes <erick@epi-wa.com>
> **Subject:** Part 2: Additional Analysis: ESC Lab Sciences Report for MT. VERNON Mt. Vernon CS L867860
>
> Hi Tom – We have additional archived samples we need to analyze for Chromium? Please see the attached list. There are 68 samples. Please let me know if you have any questions.
>
> Thank you.
> Cynthia
>
> Cynthia Moon – Environmental Scientist
> ENVIRONMENTAL PARTNERS, INC.
> 1180 NW Maple Street, Suite 310 Issaquah, Washington 98027
> 425.395.0012 (direct) | 425.395.0010 (main) | cynthiam@epi-wa.com

From: Cynthia Moon <cynthiam@epi-wa.com>
Date: Wednesday, November 2, 2016 at 11:01 AM
To: Jarred Willis <tmellette@esclabsciences.com>
Cc: "Alan Hopkins - Portnoy (PRT)" <ahopkins@pei-tx.com>, Eric Koltes <erick@epi-wa.com>
Subject: Additional Analysis: ESC Lab Sciences Report for MT. VERNON Mt. Vernon CS L867860

Hi Tom – Would you please analyze the attached list of archived samples for Chromium? There are 151 samples. Please let me know if you have any questions.

Thank you.
Cynthia

Cynthia Moon – Environmental Scientist
ENVIRONMENTAL PARTNERS, INC.
1180 NW Maple Street, Suite 310 Issaquah, Washington 98027
425.395.0012 (direct) | 425.395.0010 (main) | cynthiam@epi-wa.com

---

From: Jarred Willis <tmellette@esclabsciences.com> on behalf of Jarred Willis <tmellette@esclabsciences.com>
Reply-To: Jarred Willis <tmellette@esclabsciences.com>
Date: Friday, October 28, 2016 at 2:45 PM
To: "AHopkins@pei-tx.com" <AHopkins@pei-tx.com>, "CMoseley@pei-tx.com" <CMoseley@pei-tx.com>, Eric Koltes <erick@epi-wa.com>, Cynthia Moon <cynthiam@epi-wa.com>
Subject: ESC Lab Sciences Report for MT. VERNON Mt. Vernon CS L867860

Thank you for choosing ESC Lab Sciences!

The file size of the report file(s) exceeded the mail delivery system threshold of 5MB. Please view your report file(s) through our client portal "myESC" at https://www.esclabsciences.com/login or by using the link(s) below:

Report for L867860

ESC is pleased to announce that we are accepting samples from 21 states for the new 3511 prep technique for PAHs by 8270 and 8270SIM. This technique allows for a 98% reduction in solvent usage, and requires only 2 to 3 40 mL non-preserved amber vials vs. the traditional 1 or 2 amber liter jars. Please contact your Technical Service Representative for details.

ESC is leading the laboratory industry with our On-line Data Management tools. Please contact your Technical Service Representative to learn how to create historical Excel tables or access data in real time using powerful and intuitive software that is only available at http://www.esclabsciences.com.

How are we doing? ESC would like to hear from you. Please take a moment and complete our customer feedback survey at https://www.surveymonkey.com/s/TCGLB7T.

ESC ... "Your Lab of Choice"

Archived Locations Request 11/2/16	Sample Depth (Inches)	26 LOCATIONS	71 samples
000P-75	0	L873507-01	
000P-75	18	L873507-02	
000P-75	30	L873507-03	
000P-95	0	L873507-04	
000P-95	18	L873507-05	
000P-95	30	L873507-06	
000T-58	0	L873507-07	
000T-58	18	L873507-08	
000T-58	30	L873507-09	
000V135	0	L873507-10	
000V135	18	L873507-11	
00I145	0	L873507-12	
00I145	18	L873507-13	
00F-75:0	0	L873507-14	
00I145	30	L873507-15	
00F-94	18	L873507-16	
00F-94	30	L873507-17	
00J95	0	L873507-18	
00J95	18	L873507-19	
00J95	30	L873507-20	
00L52	0	L873507-21	
00L52	18	L873507-22	
00L52	30	L873507-23	
00L72	0	L873507-24	
00L72	18	L873507-25	
00L72	30	L873507-26	
00W148	0	L873507-27	
00W148	18	L873507-28	
00W148	30	L873507-29	
0O145	0	L873507-30	
0O145	18	L873507-31	
0O145	30	L873507-32	
0W-33	0	L873507-33	
0W-33	18	L873507-34	
0W-33	30	L873507-35	
AC124	0	L873507-36	
AC124	18	L873507-37	
AH-62	0	L873507-38	
AH-62	18	L873507-39	
AH-62	30	L873507-40	
AS117	0	L873507-41	
AS117	18	L873507-42	
AS117	30	L873507-43	
AU-65	0	L873507-44	
AU-65	18	L873507-45	
AU-65	30	L873507-46	
BM102	0	L873507-47	
BM102	18	L873507-48	
BM102	30	L873507-49	
CE84	18	L873507-50	
CE84	30	L873507-51	

CE94	0	**L873507-52**	
CE94	18	**L873507-53**	
CE94	30	**L873507-54**	
CH-72	0	**L873507-55**	
CH-72	18	**L873507-56**	
CH-72	30	**L873507-57**	
CN-59	0	**L873507-58**	
CN-59	18	**L873507-59**	
CN-59	30	**L873507-60**	
CO-67	0	**L873507-61**	
CO-67	18	**L873507-62**	
CU-65	0	**L873507-63**	
CU-65	18	**L873507-64**	
CU-65	30	**L873507-65**	
DI72	0	**L873507-66**	
DI72	18	**L873507-67**	
DI72	30	**L873507-68**	
J-41	0	**L873507-69**	
J-41	18	**L873507-70**	
J-41	30	**L873507-71**	

ANALYTICAL REPORT

December 06, 2016

Portnoy Environmental

Sample Delivery Group:	L875385
Samples Received:	10/22/2016
Project Number:	MT. VERNON
Description:	Mt. Vernon CS
Site:	MT. VERNON
Report To:	NWPL Team 1414 W. Sam Houston Pkwy. N., Suite 170 Houston, TX 77043

Entire Report Reviewed By:

Tom Mellette
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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X-50:0 L875385-01 Solid

Collected by: Alan Hopkins
Collected date/time: 10/19/16 00:00
Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG931118	1	12/01/16 14:10	12/01/16 23:53	CCE
Total Solids by Method 2540 G-2011	WG931106	1	12/02/16 09:39	12/02/16 09:50	MEL

X-50:18 L875385-02 Solid

Collected by: Alan Hopkins
Collected date/time: 10/19/16 00:00
Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG931118	1	12/01/16 14:10	12/02/16 00:07	CCE
Total Solids by Method 2540 G-2011	WG931106	1	12/02/16 09:39	12/02/16 09:50	MEL

X-50:30 L875385-03 Solid

Collected by: Alan Hopkins
Collected date/time: 10/19/16 00:00
Received date/time: 10/22/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010C	WG931118	1	12/01/16 14:10	12/02/16 00:10	CCE
Total Solids by Method 2540 G-2011	WG931106	1	12/02/16 09:39	12/02/16 09:50	MEL

All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Tom Mellette
Technical Service Representative

Sample Handling and Receiving

The following samples were prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.

ESC Sample ID	Project Sample ID	Method
L875385-01	X-50:0	2540 G-2011
L875385-02	X-50:18	2540 G-2011
L875385-03	X-50:30	2540 G-2011

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.6		1	12/02/2016 09:50	WG931106

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	50.5		1.17	1	12/01/2016 23:53	WG931118

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.7		1	12/02/2016 09:50	WG931106

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	46.1		1.09	1	12/02/2016 00:07	WG931118

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.9		1	12/02/2016 09:50	WG931106

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chromium	39.5		1.11	1	12/02/2016 00:10	WG931118

Method Blank (MB)

(MB) R3182227-1 12/02/16 09:50

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000700			

L875395-02 Original Sample (OS) • Duplicate (DUP)

(OS) L875395-02 12/02/16 09:50 • (DUP) R3182227-3 12/02/16 09:50

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	89.4	87.9	1	1.78		5

Laboratory Control Sample (LCS)

(LCS) R3182227-2 12/02/16 09:50

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	99.9	85.0-115	

Method Blank (MB)

(MB) R3181977-1 12/01/16 23:45

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chromium	U		0.14	1.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3181977-2 12/01/16 23:47 • (LCSD) R3181977-3 12/01/16 23:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chromium	100	97.8	102	98	102	80-120			4	20

L875385-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L875385-01 12/01/16 23:53 • (MS) R3181977-6 12/02/16 00:01 • (MSD) R3181977-7 12/02/16 00:04

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium	117	50.5	160	153	94	88	1	75-125			4	20

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Rec.	Recovery.

Qualifier	Description
	The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ACCREDITATIONS & LOCATIONS

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [14]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

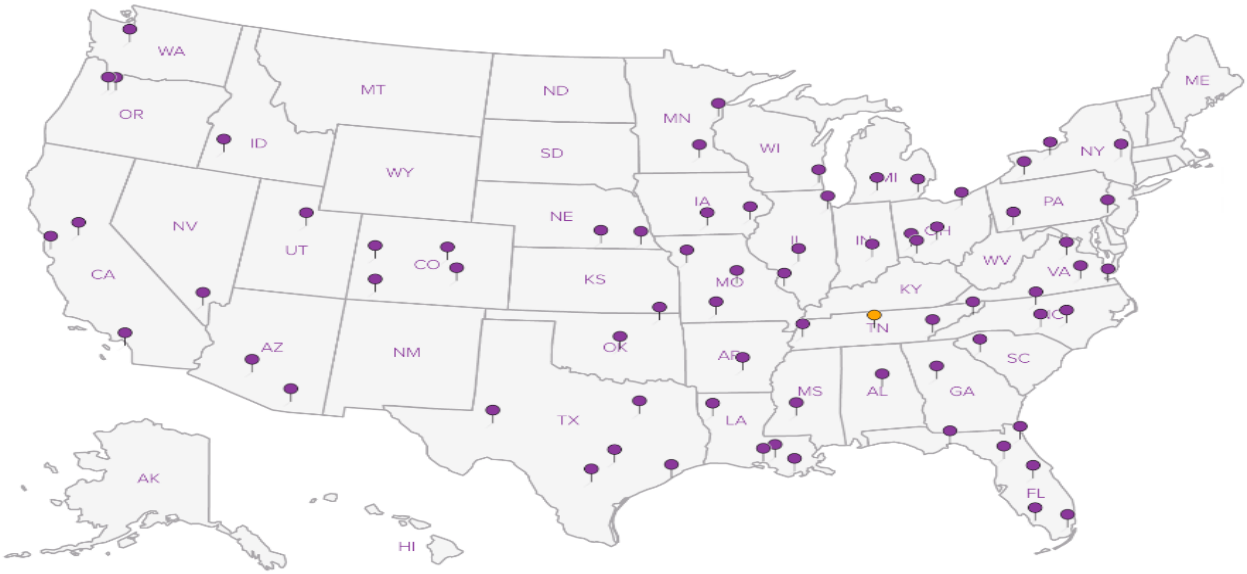
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Portnoy Environmental
1414 W. Sam Houston Pkwy N.
Suite 170
Houston, TX 77043

Alternate billing information:
Aaron Galer
Northwest Pipeline

Report to: NWPL Team
Email to: ahopkins@pei-tx.com

Analysis/Container/Preservative

Chain of Custody Page 19 of 40

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

Project Description: Mt. Vernon CS
City/State Collected: Mt. Vernon
Phone: 713-805-2994
FAX: 832-295-6404
Client Project #: Mt. Vernon
ESC Key: PORTNOYENV-WAHG
Collected by: Alan Hopkins
Site/Facility ID#: Mt. Vernon
P.O.#:
Collected by (signature):
Packed on Ice: N

CoCode portenvtx (lab use only)
Template/Prelogin:
Shipped Via:

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%

Date Results Needed:
Email? __No ✓Yes
FAX? ✓No __Yes

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Chromium	HOLD	Remarks/Contaminant	Sample # (lab only)
X-50 : 0	Grab	SS		101916		1		X	L875385-01	~~L878~~
: 18	Grab	SS				1		X	02	
: 30	Grab	SS				1		X	03	
X-74 : 0	Grab	SS				1	X			~~04~~
: 18	Grab	SS				1	X			~~05~~
: 30	Grab	SS				1	X			
Z 114 : 0	Grab	SS				1		X		
: 18	Grab	SS				1		X		
: 24	Grab	SS				1		X		

N 11/30/16

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other:

pH _____ Temp _____
Flow _____ Other _____

Remarks:

	Date:	Time:		
Relinquished by: (Signature)	10-21-16	1200	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb / Bottles Received: 38
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10-22-16 / Time: 9a

Condition: JW7 COC2 (lab use only)
pH Checked: NCF: X

Andy Vann

From: Tom Mellette
Sent: Wednesday, November 30, 2016 12:27 PM
To: Andy Vann
Cc: Cynthia Moon (cynthiam@epi-wa.com); Eric Koltes
Subject: FW: Additional Analysis: ESC Lab Sciences Login for MT. VERNON Mt. Vernon CS L867860
Attachments: COCL867860.pdf; ln01L867860.pdf

Andy - please re-log these if possible PO # 646406-NXG99 (CRICP,TS,EDD=EIM) STD TAT.

Cynthia - will do.

-----Original Message-----
From: Cynthia Moon [mailto:cynthiam@epi-wa.com]
Sent: Wednesday, November 30, 2016 12:22 PM
To: Tom Mellette
Cc: Eric Koltes
Subject: Additional Analysis: ESC Lab Sciences Login for MT. VERNON Mt. Vernon CS L867860

Hi Tom – It looks like there was one last archived location that we did collect but unfortunately did not previously request (page 19 of 40 of COC). If you still have these samples, would you please analyze for chromium?

X-50:0
X-50:18
X-50:30

Thank you!
Cynthia

Cynthia Moon – Environmental Scientist
ENVIRONMENTAL PARTNERS, INC.
1180 NW Maple Street, Suite 310 Issaquah, Washington 98027
425.395.0012 (direct) | 425.395.0010 (main) | cynthiam@epi-wa.com

On 10/22/16, 10:05 PM, "Tom Mellette" <tmellette@esclabsciences.com> wrote:

Thank you for choosing ESC Lab Sciences! Please find enclosed PDF files containing your laboratory login confirmation and chain of custody.

ESC is leading the laboratory industry with our On-line Data Management tools. Please contact your Technical Service Representative to learn how to create historical Excel tables or access data in real time using powerful and intuitive software that is only available at http://www.esclabsciences.com.

ANALYTICAL REPORT

June 21, 2017

Environmental Partners, Inc

Sample Delivery Group:	L916255
Samples Received:	06/15/2017
Project Number:	47311
Description:	Mt. Vernon CS

Report To: Eric Koltes
1180 NW Maple Street, Ste. 310
Issaquah, WA 98027

Entire Report Reviewed By:

Brian Ford
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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CO-88:18A L916255-01 Solid

Collected by: Charles McFadden | Collected date/time: 05/15/17 12:00 | Received date/time: 06/15/17 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG990670	1	06/19/17 16:04	06/19/17 16:12	MLW
Metals (ICP) by Method 6010C	WG990107	1	06/20/17 07:47	06/21/17 03:41	CCE

CO-88:18B L916255-02 Solid

Collected by: Charles McFadden | Collected date/time: 05/15/17 12:01 | Received date/time: 06/15/17 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG990660	1	06/19/17 14:31	06/19/17 15:07	MLW
Metals (ICP) by Method 6010C	WG990107	1	06/20/17 07:47	06/21/17 03:54	CCE

CO-88:18C L916255-03 Solid

Collected by: Charles McFadden | Collected date/time: 05/15/17 12:02 | Received date/time: 06/15/17 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG990670	1	06/19/17 16:04	06/19/17 16:12	MLW
Metals (ICP) by Method 6010C	WG990107	1	06/20/17 07:47	06/21/17 03:57	CCE

CO-88:18D L916255-04 Solid

Collected by: Charles McFadden | Collected date/time: 05/15/17 12:03 | Received date/time: 06/15/17 12:00

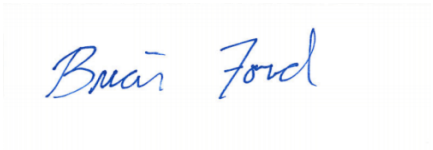
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG990660	1	06/19/17 14:31	06/19/17 15:07	MLW
Metals (ICP) by Method 6010C	WG990107	1	06/20/17 07:47	06/21/17 04:05	CCE

CO-88:18E L916255-05 Solid

Collected by: Charles McFadden | Collected date/time: 05/15/17 12:04 | Received date/time: 06/15/17 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG990660	1	06/19/17 14:31	06/19/17 15:07	MLW
Metals (ICP) by Method 6010C	WG990107	1	06/20/17 07:47	06/21/17 04:08	CCE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Brian Ford
Technical Service Representative

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.2	T8	1	06/19/2017 16:12	WG990670

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chromium	38.3		0.150	1.07	1	06/21/2017 03:41	WG990107

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.4	T8	1	06/19/2017 15:07	WG990660

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chromium	38.0		0.157	1.12	1	06/21/2017 03:54	WG990107

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.6	T8	1	06/19/2017 16:12	WG990670

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chromium	26.9		0.153	1.09	1	06/21/2017 03:57	WG990107

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.9	T8	1	06/19/2017 15:07	WG990660

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chromium	44.0		0.154	1.10	1	06/21/2017 04:05	WG990107

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.8	T8	1	06/19/2017 15:07	WG990660

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chromium	43.3		0.156	1.11	1	06/21/2017 04:08	WG990107

Method Blank (MB)

(MB) R3226945-1 06/19/17 15:07

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000400			

L916255-02 Original Sample (OS) • Duplicate (DUP)

(OS) L916255-02 06/19/17 15:07 • (DUP) R3226945-3 06/19/17 15:07

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	89.4	90.0	1	0.619		5

Laboratory Control Sample (LCS)

(LCS) R3226945-2 06/19/17 15:07

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3226963-1 06/19/17 16:12

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000300			

L916255-01 Original Sample (OS) • Duplicate (DUP)

(OS) L916255-01 06/19/17 16:12 • (DUP) R3226963-3 06/19/17 16:12

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	93.2	91.8	1	1.46		5

Laboratory Control Sample (LCS)

(LCS) R3226963-2 06/19/17 16:12

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3227266-1 06/21/17 03:33

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
Chromium	U		0.14	1.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3227266-2 06/21/17 03:35 • (LCSD) R3227266-3 06/21/17 03:38

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Chromium	100	99.7	87.8	100	88	80-120			13	20

L916255-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L916255-01 06/21/17 03:41 • (MS) R3227266-6 06/21/17 03:49 • (MSD) R3227266-7 06/21/17 03:51

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chromium	107	38.3	125	128	80	84	1	75-125			3	20

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL (dry)	Reported Detection Limit.
RDL	Reported Detection Limit.
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Rec.	Recovery.

Qualifier	Description
T8	Sample(s) received past/too close to holding time expiration.

ACCREDITATIONS & LOCATIONS

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
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State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1.] Drinking Water [2.] Underground Storage Tanks [3.] Aquatic Toxicity [4.] Chemical/Microbiological [5.] Mold [n/a] Accreditation not applicable

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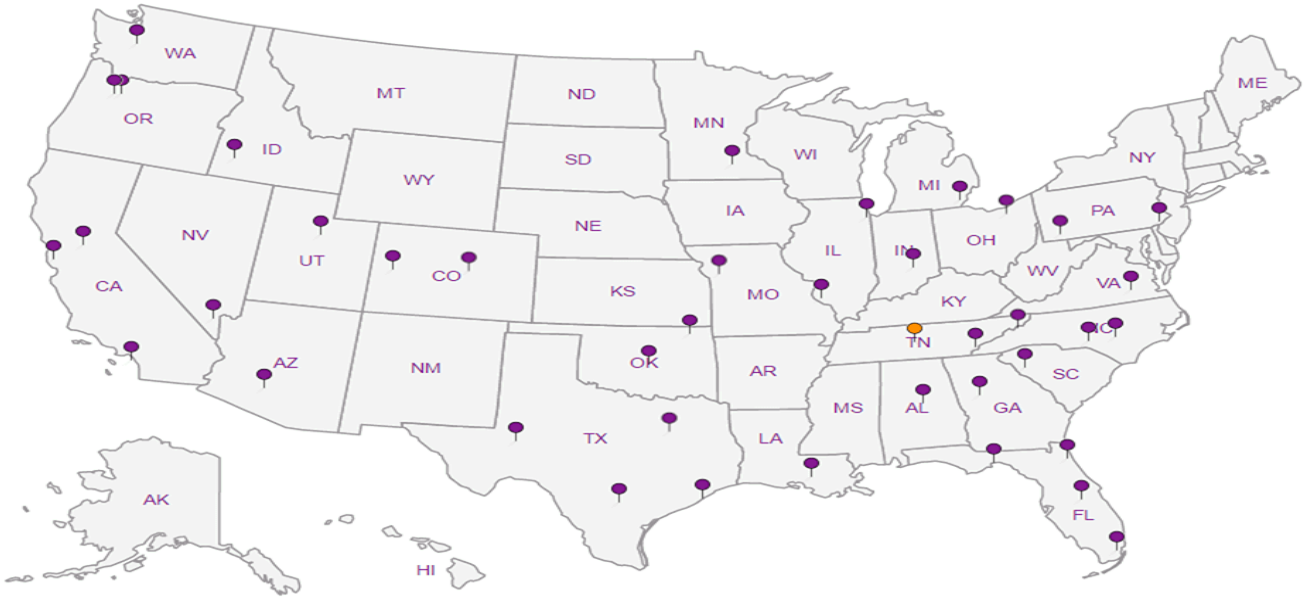

Environmental Partners Inc.
1180 NW Maple St STE 310
Issaquah, WA 98027

Billing Information:

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

ESC LABORATORY SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 91655
C091

Report to: **Eric Koltes**

Email To: **erick@epi-wa.com**

Project Description: **Mt. Vernon CS**

City/State Collected: **Mt. Vernon, WA**

Phone: **425-395-0010**
Fax:

Client Project # **47311**

Lab Project # [redacted] TM

Collected by (print): **Charles McFadden**

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately
Packed on Ice N ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day X 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Quote #

Acctnum:
Template:
Prelogin:
TSR:
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Chromium by EPA 6010 TS	Remarks	Sample # (lab only)
CO-88:18a	Grab	SS		5/15/17	1200	1	X		01
CO-88:18b	Grab	SS		5/15/17	1201	1	X		02
CO-88:18c	Grab	SS		5/15/17	1202	1	X		03
CO-88:18d	Grab	SS		5/15/17	1203	1	X		04
CO-88:18e	Grab	SS		5/15/17	1204	1	X		05

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
~~WW - WasteWater~~
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: ~~NP~~ Y N
COC Signed/Accurate: ~~Y~~ N
Bottles arrive intact: ~~Y~~ N
~~Correct bottles used:~~ ~~Y~~ N
~~Sufficient volume sent:~~ ~~Y~~ N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
	6/14/17				
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	
				AMB 5	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	Hold: / Condition: NCF / OK
				6/15/17 12:00	

ANALYTICAL REPORT

June 21, 2017

Environmental Partners, Inc

Sample Delivery Group:	L916258
Samples Received:	06/15/2017
Project Number:	47311
Description:	Mt. Vernon CS

Report To: Eric Koltes
1180 NW Maple Street, Ste. 310
Issaquah, WA 98027

Entire Report Reviewed By:

Brian Ford
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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- Total Solids by Method 2540 G-2011 10
- Metals (ICP) by Method 6010C 14

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CK-88:3A L916258-01 Solid

Collected by: Charles McFadden | Collected date/time: 05/15/17 10:50 | Received date/time: 06/15/17 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG990660	1	06/19/17 14:31	06/19/17 15:07	MLW
Metals (ICP) by Method 6010C	WG990107	1	06/20/17 07:47	06/21/17 04:11	CCE

CK-88:3B L916258-02 Solid

Collected by: Charles McFadden | Collected date/time: 05/15/17 10:51 | Received date/time: 06/15/17 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG990660	1	06/19/17 14:31	06/19/17 15:07	MLW
Metals (ICP) by Method 6010C	WG990107	1	06/20/17 07:47	06/21/17 04:14	CCE

CK-88:3C L916258-03 Solid

Collected by: Charles McFadden | Collected date/time: 05/15/17 10:52 | Received date/time: 06/15/17 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG990658	1	06/19/17 15:08	06/19/17 15:14	MLW
Metals (ICP) by Method 6010C	WG990107	1	06/20/17 07:47	06/21/17 04:16	CCE

CK-88:3D L916258-04 Solid

Collected by: Charles McFadden | Collected date/time: 05/15/17 10:53 | Received date/time: 06/15/17 12:00

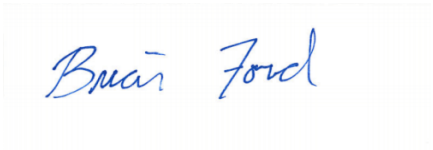
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG990680	1	06/19/17 15:54	06/19/17 16:03	MLW
Metals (ICP) by Method 6010C	WG990107	1	06/20/17 07:47	06/21/17 04:19	CCE

CK-88:3E L916258-05 Solid

Collected by: Charles McFadden | Collected date/time: 05/15/17 10:54 | Received date/time: 06/15/17 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG990670	1	06/19/17 16:04	06/19/17 16:12	MLW
Metals (ICP) by Method 6010C	WG990107	1	06/20/17 07:47	06/21/17 04:22	CCE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Brian Ford
Technical Service Representative

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.2	T8	1	06/19/2017 15:07	WG990660

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chromium	384		0.161	1.15	1	06/21/2017 04:11	WG990107

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.9	T8	1	06/19/2017 15:07	WG990660

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chromium	445		0.157	1.12	1	06/21/2017 04:14	WG990107

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.7	T8	1	06/19/2017 15:14	WG990658

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chromium	680		0.160	1.14	1	06/21/2017 04:16	WG990107

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.3	T8	1	06/19/2017 16:03	WG990680

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chromium	464		0.162	1.16	1	06/21/2017 04:19	WG990107

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.9	T8	1	06/19/2017 16:12	WG990670

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chromium	513		0.163	1.16	1	06/21/2017 04:22	WG990107

Method Blank (MB)

(MB) R3226949-1 06/19/17 15:14

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000200			

L916258-03 Original Sample (OS) • Duplicate (DUP)

(OS) L916258-03 06/19/17 15:14 • (DUP) R3226949-3 06/19/17 15:14

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	87.7	91.8	1	4.55		5

Laboratory Control Sample (LCS)

(LCS) R3226949-2 06/19/17 15:14

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3226945-1 06/19/17 15:07

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000400			

L916255-02 Original Sample (OS) • Duplicate (DUP)

(OS) L916255-02 06/19/17 15:07 • (DUP) R3226945-3 06/19/17 15:07

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	89.4	90.0	1	0.619		5

Laboratory Control Sample (LCS)

(LCS) R3226945-2 06/19/17 15:07

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3226963-1 06/19/17 16:12

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000300			

L916255-01 Original Sample (OS) • Duplicate (DUP)

(OS) L916255-01 06/19/17 16:12 • (DUP) R3226963-3 06/19/17 16:12

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	93.2	91.8	1	1.46		5

Laboratory Control Sample (LCS)

(LCS) R3226963-2 06/19/17 16:12

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3226958-1 06/19/17 16:03

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000100			

L916258-04 Original Sample (OS) • Duplicate (DUP)

(OS) L916258-04 06/19/17 16:03 • (DUP) R3226958-3 06/19/17 16:03

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	86.3	89.6	1	3.75		5

Laboratory Control Sample (LCS)

(LCS) R3226958-2 06/19/17 16:03

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3227266-1 06/21/17 03:33

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
Chromium	U		0.14	1.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3227266-2 06/21/17 03:35 • (LCSD) R3227266-3 06/21/17 03:38

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Chromium	100	99.7	87.8	100	88	80-120			13	20

L916255-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L916255-01 06/21/17 03:41 • (MS) R3227266-6 06/21/17 03:49 • (MSD) R3227266-7 06/21/17 03:51

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chromium	107	38.3	125	128	80	84	1	75-125			3	20

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL (dry)	Reported Detection Limit.
RDL	Reported Detection Limit.
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Rec.	Recovery.

Qualifier	Description
T8	Sample(s) received past/too close to holding time expiration.

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Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
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Nebraska	NE-OS-15-05		

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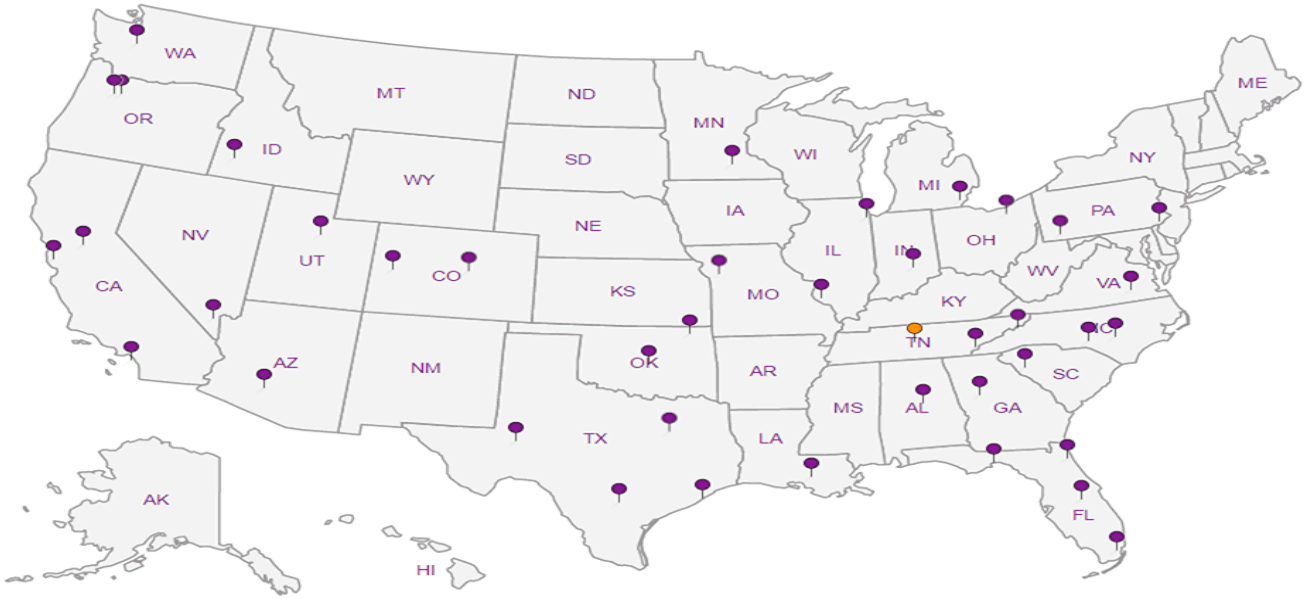

Environmental Partners Inc.
1180 NW Maple St STE 310
Issaquah, WA 98027

Billing Information:

Pres Chk

Report to: **Eric Koltes**

Email To: **erick@epi-wa.com**

Project Description: **Mt. Vernon CS**

City/State Collected: **Mt. Vernon, WA**

Phone: **425-395-0010**
Fax:

Client Project # **47311**

Lab Project # [redacted]

Collected by (print): **Charles McFadden**

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day X 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Quote #

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

ESC LABORATORY SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 91758
C090

Acctnum:
Template:
Prelogin:
TSR:
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Chromium by EPA 6010, TS	Remarks	Sample # (lab only)
CK-88:3a	Grab	SS		5/15/17	1050	1	X		01
CK-88:3b	Grab	SS		5/15/17	1051	1	X		02
CK-88:3c	Grab	SS		5/15/17	1052	1	X		03
CK-88:3d	Grab	SS		5/15/17	1053	1	X		04
CK-88:3e	Grab	SS		5/15/17	1054	1	X		05

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking #

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp AMB °C Bottles Received: 5

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Relinquished by : (Signature)	Date: 6/14/17	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Reagan Tolan

Date: 6/15/17 Time: 12:00

ANALYTICAL REPORT

June 21, 2017

Environmental Partners, Inc

Sample Delivery Group:	L916259
Samples Received:	06/15/2017
Project Number:	47311
Description:	Mt. Vernon CS

Report To: Eric Koltes
1180 NW Maple Street, Ste. 310
Issaquah, WA 98027

Entire Report Reviewed By:

Brian Ford
Technical Service Representative

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CK-88:18A L916259-01 Solid

Collected by: Charles McFadden | Collected date/time: 05/15/17 11:00 | Received date/time: 06/15/17 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG990667	1	06/19/17 16:30	06/19/17 16:40	MLW
Metals (ICP) by Method 6010C	WG990107	1	06/20/17 07:47	06/21/17 04:25	CCE

CK-88:18B L916259-02 Solid

Collected by: Charles McFadden | Collected date/time: 05/15/17 11:01 | Received date/time: 06/15/17 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG990658	1	06/19/17 15:08	06/19/17 15:14	MLW
Metals (ICP) by Method 6010C	WG990107	1	06/20/17 07:47	06/21/17 04:27	CCE

CK-88:18C L916259-03 Solid

Collected by: Charles McFadden | Collected date/time: 05/15/17 11:02 | Received date/time: 06/15/17 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG990667	1	06/19/17 16:30	06/19/17 16:40	MLW
Metals (ICP) by Method 6010C	WG990107	1	06/20/17 07:47	06/21/17 04:30	CCE

CK-88:18D L916259-04 Solid

Collected by: Charles McFadden | Collected date/time: 05/15/17 11:03 | Received date/time: 06/15/17 12:00

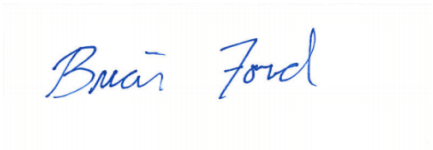
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG990670	1	06/19/17 16:04	06/19/17 16:12	MLW
Metals (ICP) by Method 6010C	WG990107	1	06/20/17 07:47	06/21/17 04:38	CCE

CK-88:18E L916259-05 Solid

Collected by: Charles McFadden | Collected date/time: 05/15/17 11:04 | Received date/time: 06/15/17 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG990660	1	06/19/17 14:31	06/19/17 15:07	MLW
Metals (ICP) by Method 6010C	WG990107	1	06/20/17 07:47	06/21/17 04:41	CCE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Brian Ford
Technical Service Representative

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.0	T8	1	06/19/2017 16:40	WG990667

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chromium	347		0.159	1.14	1	06/21/2017 04:25	WG990107

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.4	T8	1	06/19/2017 15:14	WG990658

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chromium	557		0.170	1.21	1	06/21/2017 04:27	WG990107

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.0	T8	1	06/19/2017 16:40	WG990667

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chromium	389		0.167	1.19	1	06/21/2017 04:30	WG990107

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.7	T8	1	06/19/2017 16:12	WG990670

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chromium	409		0.165	1.18	1	06/21/2017 04:38	WG990107

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.0	T8	1	06/19/2017 15:07	WG990660

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chromium	385		0.171	1.22	1	06/21/2017 04:41	WG990107

Method Blank (MB)

(MB) R3226949-1 06/19/17 15:14

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000200			

L916258-03 Original Sample (OS) • Duplicate (DUP)

(OS) L916258-03 06/19/17 15:14 • (DUP) R3226949-3 06/19/17 15:14

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	87.7	91.8	1	4.55		5

Laboratory Control Sample (LCS)

(LCS) R3226949-2 06/19/17 15:14

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3226945-1 06/19/17 15:07

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000400			

L916255-02 Original Sample (OS) • Duplicate (DUP)

(OS) L916255-02 06/19/17 15:07 • (DUP) R3226945-3 06/19/17 15:07

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	89.4	90.0	1	0.619		5

Laboratory Control Sample (LCS)

(LCS) R3226945-2 06/19/17 15:07

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3226967-1 06/19/17 16:40

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000100			

L916259-01 Original Sample (OS) • Duplicate (DUP)

(OS) L916259-01 06/19/17 16:40 • (DUP) R3226967-3 06/19/17 16:40

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	88.0	87.5	1	0.502		5

Laboratory Control Sample (LCS)

(LCS) R3226967-2 06/19/17 16:40

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3226963-1 06/19/17 16:12

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000300			

L916255-01 Original Sample (OS) • Duplicate (DUP)

(OS) L916255-01 06/19/17 16:12 • (DUP) R3226963-3 06/19/17 16:12

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	93.2	91.8	1	1.46		5

Laboratory Control Sample (LCS)

(LCS) R3226963-2 06/19/17 16:12

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3227266-1 06/21/17 03:33

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
Chromium	U		0.14	1.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3227266-2 06/21/17 03:35 • (LCSD) R3227266-3 06/21/17 03:38

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Chromium	100	99.7	87.8	100	88	80-120			13	20

L916255-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L916255-01 06/21/17 03:41 • (MS) R3227266-6 06/21/17 03:49 • (MSD) R3227266-7 06/21/17 03:51

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chromium	107	38.3	125	128	80	84	1	75-125			3	20

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL (dry)	Reported Detection Limit.
RDL	Reported Detection Limit.
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Rec.	Recovery.

Qualifier	Description
T8	Sample(s) received past/too close to holding time expiration.

ACCREDITATIONS & LOCATIONS

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

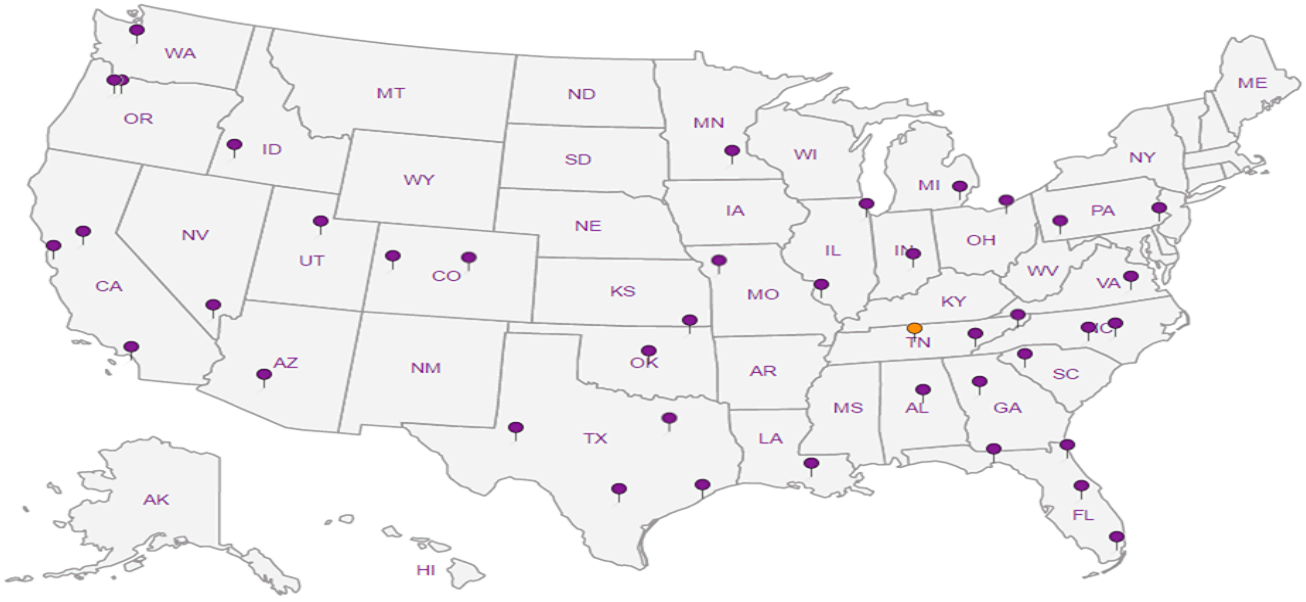
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Environmental Partners Inc.
1180 NW Maple St STE 310
Issaquah, WA 98027

Billing Information:

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

ESC LABORATORY SCIENCES

YOUR LAB OF CHOICE

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 916259

C089

Report to: **Eric Koltes**

Email To: **erick@epi-wa.com**

Project Description: **Mt. Vernon CS**

City/State Collected: **Mt. Vernon, WA**

Phone: **425-395-0010**
Fax:

Client Project # **47311**

Lab Project # [redacted]

Collected by (print): **Charles McFadden**

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N___ Y___

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day X 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Quote #

Acctnum:
Template:
Prelogin:
TSR:
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Chromium by EPA 6010, TS										Remarks	Sample # (lab only)
CK-88:18a	Grab	SS		5/15/17	1100	1	X											01
CK-88:18b	Grab	SS		5/15/17	1101	1	X											02
CK-88:18c	Grab	SS		5/15/17	1102	1	X											03
CK-88:18d	Grab	SS		5/15/17	1103	1	X											04
CK-88:18e	Grab	SS		5/15/17	1104	1	X											05

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
	6/14/17			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 5
				AIB
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 6/15/17 Time: 12:00
			Reagan Johnson	

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

ANALYTICAL REPORT

June 21, 2017

Environmental Partners, Inc

Sample Delivery Group:	L916261
Samples Received:	06/15/2017
Project Number:	47311
Description:	Mt. Vernon CS

Report To: Eric Koltes
1180 NW Maple Street, Ste. 310
Issaquah, WA 98027

Entire Report Reviewed By:

Brian Ford
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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Al-85:0A L916261-01 Solid

Collected by: Charles McFadden | Collected date/time: 05/15/17 10:00 | Received date/time: 06/15/17 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG990670	1	06/19/17 16:04	06/19/17 16:12	MLW
Metals (ICP) by Method 6010C	WG990107	1	06/20/17 07:47	06/21/17 04:44	CCE

Al-85:0B L916261-02 Solid

Collected by: Charles McFadden | Collected date/time: 05/15/17 10:01 | Received date/time: 06/15/17 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG990660	1	06/19/17 14:31	06/19/17 15:07	MLW
Metals (ICP) by Method 6010C	WG990107	1	06/20/17 07:47	06/21/17 04:47	CCE

Al-85:0C L916261-03 Solid

Collected by: Charles McFadden | Collected date/time: 05/15/17 10:02 | Received date/time: 06/15/17 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG990654	1	06/19/17 15:15	06/19/17 15:23	MLW
Metals (ICP) by Method 6010C	WG990107	1	06/20/17 07:47	06/21/17 04:49	CCE

Al-85:0D L916261-04 Solid

Collected by: Charles McFadden | Collected date/time: 05/15/17 10:03 | Received date/time: 06/15/17 12:00

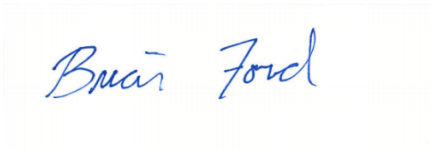
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG990658	1	06/19/17 15:08	06/19/17 15:14	MLW
Metals (ICP) by Method 6010C	WG990107	1	06/20/17 07:47	06/21/17 04:52	CCE

Al-85:0E L916261-05 Solid

Collected by: Charles McFadden | Collected date/time: 05/15/17 10:04 | Received date/time: 06/15/17 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG990658	1	06/19/17 15:08	06/19/17 15:14	MLW
Metals (ICP) by Method 6010C	WG990107	1	06/20/17 07:47	06/21/17 04:55	CCE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Brian Ford
Technical Service Representative

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	70.3	T8	1	06/19/2017 16:12	WG990670

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chromium	111		0.199	1.42	1	06/21/2017 04:44	WG990107

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	74.3	T8	1	06/19/2017 15:07	WG990660

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chromium	79.3		0.188	1.35	1	06/21/2017 04:47	WG990107

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.7	J3 T8	1	06/19/2017 15:23	WG990654

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chromium	195		0.176	1.25	1	06/21/2017 04:49	WG990107

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	68.4	T8	1	06/19/2017 15:14	WG990658

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chromium	177		0.205	1.46	1	06/21/2017 04:52	WG990107

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	72.9	T8	1	06/19/2017 15:14	WG990658

Metals (ICP) by Method 6010C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chromium	99.0		0.192	1.37	1	06/21/2017 04:55	WG990107

Method Blank (MB)

(MB) R3226954-1 06/19/17 15:23

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000100			

L916261-03 Original Sample (OS) • Duplicate (DUP)

(OS) L916261-03 06/19/17 15:23 • (DUP) R3226954-3 06/19/17 15:23

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	79.7	73.7	1	7.89	J3	5

Laboratory Control Sample (LCS)

(LCS) R3226954-2 06/19/17 15:23

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3226949-1 06/19/17 15:14

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000200			

L916258-03 Original Sample (OS) • Duplicate (DUP)

(OS) L916258-03 06/19/17 15:14 • (DUP) R3226949-3 06/19/17 15:14

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	87.7	91.8	1	4.55		5

Laboratory Control Sample (LCS)

(LCS) R3226949-2 06/19/17 15:14

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3226945-1 06/19/17 15:07

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000400			

L916255-02 Original Sample (OS) • Duplicate (DUP)

(OS) L916255-02 06/19/17 15:07 • (DUP) R3226945-3 06/19/17 15:07

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	89.4	90.0	1	0.619		5

Laboratory Control Sample (LCS)

(LCS) R3226945-2 06/19/17 15:07

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3226963-1 06/19/17 16:12

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000300			

L916255-01 Original Sample (OS) • Duplicate (DUP)

(OS) L916255-01 06/19/17 16:12 • (DUP) R3226963-3 06/19/17 16:12

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	93.2	91.8	1	1.46		5

Laboratory Control Sample (LCS)

(LCS) R3226963-2 06/19/17 16:12

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3227266-1 06/21/17 03:33

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
Chromium	U		0.14	1.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3227266-2 06/21/17 03:35 • (LCSD) R3227266-3 06/21/17 03:38

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Chromium	100	99.7	87.8	100	88	80-120			13	20

L916255-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L916255-01 06/21/17 03:41 • (MS) R3227266-6 06/21/17 03:49 • (MSD) R3227266-7 06/21/17 03:51

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chromium	107	38.3	125	128	80	84	1	75-125			3	20

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL (dry)	Reported Detection Limit.
RDL	Reported Detection Limit.
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Rec.	Recovery.

Qualifier	Description
J3	The associated batch QC was outside the established quality control range for precision.
T8	Sample(s) received past/too close to holding time expiration.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

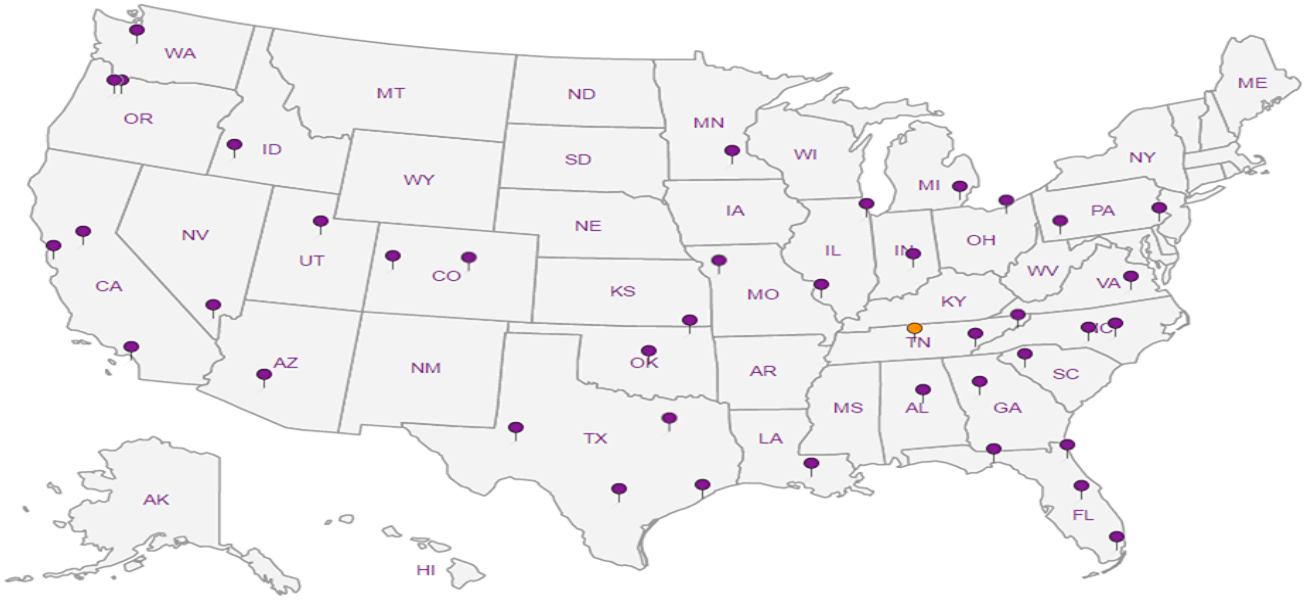
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Environmental Partners Inc.
1180 NW Maple St STE 310
Issaquah, WA 98027

Billing Information:

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

ESC LABORATORY SCIENCES

YOUR LAB OF CHOICE

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 916241
C088

Report to: **Eric Koltes**

Email To: **erick@epi-wa.com**

Project Description: **Mt. Vernon CS**

City/State Collected: **Mt. Vernon, WA**

Phone: **425-395-0010**
Fax:

Client Project # **47311**

Lab Project # [redacted] TM

Collected by (print): **Charles McFadden**

Site/Facility ID #

P.O. #

Collected by (signature):
Immediately
Packed on Ice N ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day X 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Acctnum:
Template:
Prelogin:
TSR:
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Chromium by EPA 6010 (TS)	Remarks	Sample # (lab only)
AI-85:0a	Grab	SS		5/15/17	1000	1	X		01
AI-85:0b	Grab	SS		5/15/17	1001	1	X		02
AI-85:0c	Grab	SS		5/15/17	1002	1	X		03
AI-85:0d	Grab	SS		5/15/17	1003	1	X		04
AI-85:0e	Grab	SS		5/15/17	1004	1	X		06

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
	6/14/17				
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: AMB °C Bottles Received: 5	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 6/15/17 Time: 12:00	Hold: Condition: NCF / OK

Attachment E
MTCA Stat Report for Background Data

11.3 Mt. Vernon Background for Chromium
16.1
16.7

MTCA*Stat* 3.0

Number of samples		Uncensored values	
Uncensored	20	Mean	48.77
Censored	0	Lognormal mean	47.90
TOTAL	20	Std. devn.	45.70
		Median	29.8
		Min.	11.3
		Max.	165

Lognormal distribution?	Normal distribution?
r-squared is: 0.93	r-squared is: 0.74

Recommendations:

Use lognormal distribution.

Distribution selection	Enter percentile	Value corresponding to that percentile is:
1	90	103.42
1 = Lognormal	50th	35.31
2 = Normal	4 X 50th	141.25
3 = Nonparametric method	Coefficient of Variation = 1.01	

Attachment F
MTCA Stat Report for Site Data

	A	B	C	D	E	F	G	H
1	DATA	ID	*MTCAStat 97 Site Module*				Paste values	
2	41.1							
3	41.5		**Number of samples**		**Uncensored values**		Sort data	
4	57.0		Uncensored	91	Mean	57.466		
5	60.4		Censored		Lognormal mean	57.154		Finished
6	45.3		Detection limit or PQL		Std. devn.	28.122		
7	50.9		Method detection limit		Median	50.9	Lognormal	Exit MTCA*Stat*
8	46.5		TOTAL	91	Min.	15.6		
9	39.1		ENTER DATA		Max.	179	Normal	
10	42.5		*Distribution Decision*					
11	132						Neither	
12	60.4		Probability plot method		W test	D'Agostino's test		
13	19.5						Clear messages	
14	44.9		Lognormal distribution?		Normal distribution?			
15	49.6		r-squared is:		r-squared is:			
16	84.9		*Recommendations:*				Clear all	
17	38.9		**Reject lognormal distribution.**					
18	34.5		Y value is -6.388. This lies outside the tabled values of 1.2715 and -2.5772				Histogram	
19	33.8		**Reject normal distribution.**					
20	34.7		Y value is -16.2469. This lies outside the tabled values of 1.2715 and -2.5772				5 10 20	
21	132		*Upper Confidence Limit (UCL)*					
22	105						Create report	
23	179							
24	81.9		**UCL (based on t-statistic) is 62.3728607156144**				Sample size	
25	177							
26	54.4							
27	15.6			**UCL (based on Z-statistic) is 62.315**				
28	59.3							
29	19.7							

	A	B	C	D	E	F	G	H
1	DATA	ID	*MTCAStat 97 Site Module*					
2	41.1							
3	41.5		**Number of samples**		**Uncensored values**			
4	57.0		Uncensored	91	Mean	57.466	**Calculate UCL**	
5	60.4		Censored		Lognormal mean	57.154		
6	45.3		Detection limit or PQL		Std. devn.	28.122		
7	50.9		Method detection limit		Median	50.9		
8	46.5		TOTAL	91	Min.	15.6		
9	39.1		**ENTER DATA**		Max.	179		
10	42.5		*Distribution Decision*					
11	132							
12	60.4		**Probability plot method**		W test	D'Agostino's test		
13	19.5							
14	44.9		Lognormal distribution?		Normal distribution?			
15	49.6		r-squared is:		r-squared is:			
16	84.9		*Recommendations:*					
17	38.9		**Reject lognormal distribution.**					
18	34.5		Y value is -6.388. This lies outside the tabled values of 1.2715 and -2.5772				**Histogram**	
19	33.8		**Reject normal distribution.**					
20	34.7		Y value is -16.2469. This lies outside the tabled values of 1.2715 and -2.5772				5 10 20	
21	132		*Upper Confidence Limit (UCL)*					
22	105						**Create report**	
23	179							
24	81.9		**UCL (Land's method) is 61.7118903663667**				**Sample size**	
25	177							
26	54.4							
27	15.6							
28	59.3							
29	19.7							

Finished

Exit MTCA*Stat*

	A	B	C	D	E	F	G	H
1	DATA	ID	*MTCAStat 97 Site Module*					
2	41.1							
3	41.5		**Number of samples**		**Uncensored values**			
4	57.0		Uncensored	91	Mean	57.466	**Calculate UCL**	
5	60.4		Censored		Lognormal mean	57.154		
6	45.3		Detection limit or PQL		Std. devn.	28.122		
7	50.9		Method detection limit		Median	50.9		
8	46.5		TOTAL	91	Min.	15.6		
9	39.1		**ENTER DATA**		Max.	179		
10	42.5		*Distribution Decision*					
11	132							
12	60.4		**Probability plot method**		W test	D'Agostino's test		
13	19.5							
14	44.9		Lognormal distribution?		Normal distribution?			
15	49.6		r-squared is:		r-squared is:			
16	84.9		*Recommendations:*					
17	38.9		**Reject lognormal distribution.**					
18	34.5		Y value is -6.388. This lies outside the tabled values of 1.2715 and -2.5772				**Histogram**	
19	33.8		**Reject normal distribution.**					
20	34.7		Y value is -16.2469. This lies outside the tabled values of 1.2715 and -2.5772				5 10 20	
21	132		*Upper Confidence Limit (UCL)*					
22	105						**Create report**	
23	179							
24	81.9		**UCL (Land's method) is 61.7118903663667**				**Sample size**	
25	177							
26	54.4							
27	15.6							
28	59.3							
29	19.7							

Finished

Exit MTCA*Stat*