APPENDIX E

(PROVIDED ON ATTACHED CD)

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

February 7, 2011

Steve Spencer, Project Manager Environmental Management Services, LLC 7006 27th Street W, Suite E Tacoma, WA 98466

Dear Mr. Spencer:

Included are the results from the testing of material submitted on January 31, 2011 from the Highland 20, LLC-0393-01, F&BI 101307 project. There are 106 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures EMS0207R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 31, 2011 by Friedman & Bruya, Inc. from the Environmental Management Services, Highland 20, LLC-0393-01, F&BI 101307 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	<u>Environmental Management Services, LLC</u>
<u>101307-01</u>	S1-A1-6"
101307-02	S1-A1-12"
101307-03	S2-A1-6"
101307-04	S2-A1-12"
101307-05	S3-A1-6"
101307-06	S3-A1-12"
101307-07	S4-A1-6"
101307-08	S4-A1-12"
101307-09	S5-A1-6"
101307-10	S5-A1-12"
101307-11	S6-A1-6"
101307-12	S6-A1-12"
101307-13	S7-A1-6"
101307-14	S7-A1-12"
101307-15	S8-A1-6"
101307-16	S8-A1-12"
101307-17	S9-A1-6"
101307-18	S9-A1-12"
101307-19	S10-A1-6"
101307-20	S10-A1-12"
101307-21	S11-1B-6"
101307-22	S11-1B-12"
101307-23	S12-1B-6"
101307-24	S12-1B-12"
101307-25	S13-1B-6"
101307-26	S13-1B-12"
101307-27	S14-1B-6"
101307-28	S14-1B-12"
101307-29	S15-1B-6"
101307-30	S15-1B-12"
101307-31	S16-1B-6"
101307-32	S16-1B-12"
101307-33	S17-1B-6"
101307-34	S17-1B-12"
101307-35	S18-1B-6"
101307-36	S18-1B-12"
101307-37	S19-1B-6"
101307-38	S19-1B-12"
101307-39	S20-1B-6"

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (continued)

Laboratory ID	<u>Environmental Management Services, LLC</u>
<u>101307-40</u>	S20-1B-12"
101307-41	S21-2F-6"
101307-42	S21-2F-12"
101307-42	S22-2F-6"
101307-44	S22-2F-12"
101307-45	S23-2F-6"
101307-46	S23-2F-12"
101307-47	S24-2F-6"
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101307-49	S25-2F-6"
101307-50	S25-2F-12"
101307-51	S26-2F-6"
101307-52	S26-2F-12"
101307-53	S27-2F-6"
101307-54	S27-2F-12"
101307-55	S28-2F-6"
101307-56	S28-2F-12"
101307-57	S29-2F-6"
101307-58	S29-2F-12"
101307-59	S30-2E-6"
101307-60	S30-2E-12"
101307-61	S31-2E-6"
101307-62	S31-2E-12"
101307-63	S32-2E-6"
101307-64	S32-2E-12"
101307-65	S33-2E-6"
101307-66	S33-2E-12"
101307-67	S34-2E-6"
101307-68	S34-2E-12"
101307-69	S35-2E-6"
101307-70	S35-2E-12"
101307-71	S36-2E-6"
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101307-73	S37-2E-6"
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101307-76	S38-2E-12"
101307-77	S39-2E-6"
101307-78	S39-2E-12"
101307-79	S40-2E-6"
101307-80	S40-2E-12"
101307-81	S41-2D-6"

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (continued)

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ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (continued)

Lativitation101307-124S62-2A.12"101307-125S63-2A.6"101307-126S63-2A.12"101307-127S64-2A.6"101307-128S64-2A.12"101307-129S65-2A.6"101307-130S65-2A.12"101307-131S66-2A.6"101307-132S66-2A.6"101307-133S67-2A.6"101307-134S67-2A.6"101307-135S68-2A.6"101307-136S68-2A.6"101307-137S69-2A.12"101307-138S69-2A.12"101307-139S70-2A.6"101307-140S70-2A.6"101307-141S71-2C-6"101307-142S71-2C-12"101307-143S72-2C-6"101307-144S73-2C-6"101307-145S73-2C-6"101307-148S74-2C-6"101307-150S75-2C-6"101307-151S76-2C-6"101307-153S78-2C-6"101307-154S77-2C-12"101307-155S78-2C-6"101307-154S77-2C-12"101307-155S78-2C-6"101307-154S77-2C-12"101307-155S78-2C-6"101307-156S78-2C-6"101307-158S79-2C-12"101307-164S82-2C-12"101307-164S82-2C-12"101307-164S82-2C-12"101307-165S83-2C-6"101307-161S82-2C-6"101307-161S82-2C-6"101307-161S82-2C-6"101307-161S82-2C-6"101307-161S82-2C-6"101307-	Laboratory ID	Environmental Management Services, LLC
101307-125 $S63-2A-6"$ $101307-126$ $S63-2A-12"$ $101307-127$ $S64-2A-6"$ $101307-128$ $S64-2A-12"$ $101307-129$ $S65-2A-6"$ $101307-130$ $S65-2A-12"$ $101307-131$ $S66-2A-6"$ $101307-132$ $S66-2A-6"$ $101307-133$ $S67-2A-6"$ $101307-134$ $S67-2A-6"$ $101307-135$ $S68-2A-6"$ $101307-136$ $S68-2A-6"$ $101307-137$ $S69-2A-6"$ $101307-138$ $S69-2A-6"$ $101307-139$ $S70-2A-6"$ $101307-141$ $S71-2C-6"$ $101307-142$ $S71-2C-6"$ $101307-143$ $S72-2C-6"$ $101307-144$ $S72-2C-6"$ $101307-145$ $S73-2C-6"$ $101307-146$ $S73-2C-6"$ $101307-148$ $S74-2C-12"$ $101307-149$ $S75-2C-6"$ $101307-150$ $S75-2C-6"$ $101307-151$ $S76-2C-12"$ $101307-151$ $S76-2C-6"$ $101307-155$ $S78-2C-6"$ $101307-154$ $S77-2C-6"$ $101307-155$ $S78-2C-6"$ $101307-156$ $S78-2C-6"$ $101307-157$ $S79-2C-6"$ $101307-158$ $S79-2C-12"$ $101307-161$ $S81-2G-12"$ $101307-161$ $S81-2G-6"$ $101307-161$ $S81-2G-6"$ $101307-164$ $S82-2G-6"$	•	Ũ
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101307-128 $S64-2A-12"$ $101307-129$ $S65-2A-6"$ $101307-130$ $S65-2A-12"$ $101307-131$ $S66-2A-6"$ $101307-132$ $S66-2A-12"$ $101307-133$ $S67-2A-6"$ $101307-134$ $S67-2A-12"$ $101307-135$ $S68-2A-6"$ $101307-136$ $S68-2A-12"$ $101307-137$ $S69-2A-6"$ $101307-138$ $S69-2A-6"$ $101307-139$ $S70-2A-6"$ $101307-140$ $S70-2A-12"$ $101307-141$ $S71-2C-6"$ $101307-142$ $S71-2C-6"$ $101307-144$ $S72-2C-6"$ $101307-145$ $S73-2C-6"$ $101307-146$ $S73-2C-12"$ $101307-147$ $S74-2C-6"$ $101307-148$ $S74-2C-12"$ $101307-149$ $S75-2C-6"$ $101307-150$ $S75-2C-12"$ $101307-151$ $S76-2C-6"$ $101307-153$ $S77-2C-6"$ $101307-154$ $S77-2C-12"$ $101307-155$ $S78-2C-12"$ $101307-154$ $S77-2C-6"$ $101307-154$ $S77-2C-6"$ $101307-155$ $S78-2C-6"$ $101307-156$ $S78-2C-12"$ $101307-157$ $S79-2C-6"$ $101307-158$ $S79-2C-6"$ $101307-160$ $S80-2C-12"$ $101307-161$ $S81-2G-6"$ $101307-161$ $S81-2G-6"$ $101307-161$ $S82-2G-6"$ $101307-164$ $S82-2G-12"$		
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101307-159S80-2C-6"101307-160S80-2C-12"101307-161S81-2G-6"101307-162S81-2G-12"101307-163S82-2G-6"101307-164S82-2G-12"		
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101307-161S81-2G-6"101307-162S81-2G-12"101307-163S82-2G-6"101307-164S82-2G-12"		
101307-162S81-2G-12"101307-163S82-2G-6"101307-164S82-2G-12"		
101307-163S82-2G-6"101307-164S82-2G-12"		
101307-164 S82-2G-12"		
101307-165 S83-2G-6"		
	101307-165	S83-2G-6"

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (continued)

Laboratory ID	Environmental Management Services, LLC
101307-166	S83-2G-12"
101307-167	S84-2G-6"
101307-168	S84-2G-12"
101307-169	S85-2G-6"
101307-170	S85-2G-12"
101307-171	S86-2G-6"
101307-172	S86-2G-12"
101307-173	S87-2G-6"
101307-174	S87-2G-12"
101307-175	S88-2G-6"
101307-176	S88-2G-12"
101307-177	S89-2G-6"
101307-178	S89-2G-12"
101307-179	S90-2G-6"
101307-180	S90-2G-12"

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S1-A1-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-01 101307-01.013 ICPMS1 AP
Internal Standard: Indium	% Recovery: 90	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	79.1		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S2-A1-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-03 101307-03.014 ICPMS1 AP
Internal Standard: Indium	% Recovery: 93	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	92.7		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S3-A1-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-05 101307-05.015 ICPMS1 AP
Internal Standard Indium	% Recovery: 91	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	104		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S4-A1-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-07 101307-07.016 ICPMS1 AP
Internal Standard		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	190		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S5-A1-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-09 101307-09.017 ICPMS1 AP
Internal Standard: Indium	% Recovery: 89	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	29.3		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S6-A1-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-11 101307-11.019 ICPMS1 AP
Internal Standard Indium		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	83.8		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S7-A1-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-13 101307-13.020 ICPMS1 AP
Internal Standard Indium	: % Recovery: 92	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	253		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S8-A1-6" 01/31/11 02/01/11 02/02/11 Soil	Client: Project: Lab ID: Data File: Instrument:	Environmental Management Services Highland 20, LLC-0393-01 101307-15 101307-15.021 ICPMS1 AP
Units:	mg/kg (ppm)	Operator:	AP
		Lower	Upper
Internal Standard	: % Recovery:	Limit:	Limit:
Indium	82	60	125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	42.9		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S9-A1-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-17 101307-17.022 ICPMS1 AP
Internal Standard: Indium	% Recovery: 91	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	157		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S10-A1-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-19 101307-19.023 ICPMS1 AP
Internal Standard: Indium	% Recovery: 92	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	66.5		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S11-1B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-21 101307-21.024 ICPMS1 AP
Internal Standard Indium	: % Recovery: 88	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	43.2		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S12-1B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-23 101307-23.025 ICPMS1 AP
Internal Standard Indium		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	102		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S13-1B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-25 101307-25.026 ICPMS1 AP
Internal Standard: Indium	% Recovery: 88	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	52.7		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S14-1B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-27 101307-27.027 ICPMS1 AP
Internal Standard: Indium	% Recovery: 90	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	53.6		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S15-1B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-29 101307-29.029 ICPMS1 AP
Internal Standard: Indium	% Recovery: 90	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	55.5		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S16-1B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-31 101307-31.030 ICPMS1 AP
Internal Standard: Indium	% Recovery: 93	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	231		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S17-1B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-33 101307-33.031 ICPMS1 AP
Internal Standard: Indium	% Recovery: 89	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	60.5		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S18-1B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-35 101307-35.010 ICPMS1 AP
Internal Standard: Indium	% Recovery: 92	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	66.5		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S19-1B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-37 101307-37.032 ICPMS1 AP
Internal Standard: Indium		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	59.5		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S20-1B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-39 101307-39.033 ICPMS1 AP
Internal Standard Indium	% Recovery: 87	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	8.50		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix:	S21-2F-6" 01/31/11 02/01/11 02/02/11 Soil	Client: Project: Lab ID: Data File: Instrument:	Environmental Management Services Highland 20, LLC-0393-01 101307-41 101307-41.040 ICPMS1
Units:	mg/kg (ppm)	Operator:	AP
Internal Standard: Indium	% Recovery: 85	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	62.1		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S22-2F-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-43 101307-43.041 ICPMS1 AP
Internal Standard: Indium	% Recovery: 89	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	59.7		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S23-2F-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-45 101307-45.042 ICPMS1 AP
Internal Standard: Indium	% Recovery: 90	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	77.0		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S24-2F-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-47 101307-47.043 ICPMS1 AP
Internal Standard: Indium	% Recovery: 89	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	29.2		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S25-2F-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-49 101307-49.044 ICPMS1 AP
Internal Standard: Indium	: % Recovery: 89	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	43.5		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S26-2F-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-51 101307-51.045 ICPMS1 AP
Internal Standard: Indium	% Recovery: 79	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	52.0		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S27-2F-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-53 101307-53.046 ICPMS1 AP
Onits.	ing/kg (ppin)		
		Lower	Upper
Internal Standard	: % Recovery:	Limit:	Limit:
Indium	88	60	125
	Concentration		
Analyte:	mg/kg (ppm)		
Arsenic	47.2		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S28-2F-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-55 101307-55.047 ICPMS1 AP
Internal Standard Indium	: % Recovery: 89	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	11.4		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S29-2F-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-57 101307-57.048 ICPMS1 AP
Internal Standard: Indium	% Recovery: 87	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	37.7		
ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S30-2E-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-59 101307-59.050 ICPMS1 AP
Internal Standard: Indium	% Recovery: 89	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	27.5		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S31-2E-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-61 101307-61.051 ICPMS1 AP
Internal Standard: Indium	% Recovery: 89	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	33.7		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S32-2E-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-63 101307-63.052 ICPMS1 AP
Internal Standard: Indium	% Recovery: 89	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	23.6		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S33-2E-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-65 101307-65.036 ICPMS1 AP
Internal Standard: Indium	% Recovery: 88	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	46.3		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S34-2E-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-67 101307-67.053 ICPMS1 AP
Internal Standard: Indium	% Recovery: 88	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	41.7		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S35-2E-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-69 101307-69.054 ICPMS1 AP
Internal Standard Indium	% Recovery: 90	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	84.3		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S36-2E-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-71 101307-71.055 ICPMS1 AP
Internal Standard		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	28.4		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S37-2E-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-73 101307-73.056 ICPMS1 AP
Internal Standard: Indium	% Recovery: 89	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	23.7		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S38-2E-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-75 101307-75.057 ICPMS1 AP
Internal Standard		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	42.0		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S39-2E-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-77 101307-77.058 ICPMS1 AP
Internal Standard Indium	: % Recovery: 88	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	55.2		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S40-2E-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-79 101307-79.059 ICPMS1 AP
Internal Standard: Indium	% Recovery: 87	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	37.9		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S41-2D-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-81 101307-81.066 ICPMS1 AP
Internal Standard: Indium		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	117		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S42-2D-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-83 101307-83.067 ICPMS1 AP
Internal Standard: Indium	% Recovery: 87	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	20.6		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S43-2D-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-85 101307-85.063 ICPMS1 AP
Internal Standard: Indium	% Recovery: 90	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	29.5		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S44-2D-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-87 101307-87.068 ICPMS1 AP
Internal Standard Indium	: % Recovery: 89	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	33.8		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S45-2D-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-89 101307-89.069 ICPMS1 AP
Internal Standard: Indium	% Recovery: 88	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	33.7		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S46-2D-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-91 101307-91.071 ICPMS1 AP
Internal Standard Indium	: % Recovery: 88	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	23.4		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S47-2D-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-93 101307-93.072 ICPMS1 AP
Internal Standard: Indium	% Recovery: 86	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	31.0		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S48-2D-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-95 101307-95.073 ICPMS1 AP
Internal Standard: Indium		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	30.7		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S49-2D-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-97 101307-97.074 ICPMS1 AP
Internal Standard Indium	: % Recovery: 89	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	49.8		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S50-2D-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-99 101307-99.075 ICPMS1 AP
Internal Standard Indium	: % Recovery: 88	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	14.9		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S51-2B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-101 101307-101.076 ICPMS1 AP
Internal Standard: Indium	% Recovery: 91	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	63.6		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S52-2B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-103 101307-103.077 ICPMS1 AP
Internal Standard: Indium	% Recovery: 89	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	20.1		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S53-2B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-105 101307-105.078 ICPMS1 AP
Internal Standard: Indium	% Recovery: 89	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	25.2		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S54-2B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-107 101307-107.079 ICPMS1 AP
Internal Standard Indium		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	18.1		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S55-2B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-109 101307-109.081 ICPMS1 AP
Chitts.	mg/ng (ppm)		
Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	91	60	125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	38.8		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S56-2B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-111 101307-111.082 ICPMS1 AP
Internal Standard		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	43.2		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S57-2B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-113 101307-113.083 ICPMS1 AP
Onits.	ing/kg (ppin)		
		Lower	Upper
Internal Standard	: % Recovery:	Limit:	Limit:
Indium	90	60	125
	Concentration		
Analyte:	mg/kg (ppm)		
Arsenic	120		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S58-2B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-115 101307-115.084 ICPMS1 AP
Internal Standard: Indium	% Recovery: 87	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	61.0		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S59-2B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-117 101307-117.085 ICPMS1 AP
Internal Standard: Indium	% Recovery: 88	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	37.3		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S60-2B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-119 101307-119.086 ICPMS1 AP
Internal Standard Indium		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	253		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S61-2A-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-121 101307-121.041 ICPMS1 AP
Onits.	ing/kg (ppin)	1	
		Lower	Upper
Internal Standard	% Recovery:	Limit:	Limit:
Indium	93	60	125
	Concentration		
Analyte:	mg/kg (ppm)		
Arsenic	138		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S62-2A-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-123 101307-123.042 ICPMS1 AP
Internal Standard Indium	% Recovery: 93	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	119		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S63-2A-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-125 101307-125.044 ICPMS1 AP
Internal Standard: Indium	% Recovery: 91	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	33.7		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S64-2A-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-127 101307-127.045 ICPMS1 AP
Internal Standard: Indium	% Recovery: 93	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	58.7		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S65-2A-6" 01/31/11 02/01/11 02/03/11 Soil	Client: Project: Lab ID: Data File: Instrument:	Environmental Management Services Highland 20, LLC-0393-01 101307-129 101307-129.046 ICPMS1 AP
Units:	mg/kg (ppm)	Operator:	AP
		Lower	Upper
Internal Standard	% Recovery:	Limit:	Limit:
Indium	93	60	125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	173		
ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S66-2A-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-131 101307-131.047 ICPMS1 AP
Chitts.	ing ing (ppin)	Lower	Upper
Internal Standard Indium	: % Recovery: 86	Limit: 60	Limit: 125
marum	00	00	125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	240		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S67-2A-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-133 101307-133.048 ICPMS1 AP
Internal Standard: Indium	% Recovery: 93	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	52.4		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S68-2A-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-135 101307-135.038 ICPMS1 AP
Internal Standard: Indium	% Recovery: 91	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	13.2		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix:	S69-2A-6" 01/31/11 02/01/11 02/03/11 Soil	Client: Project: Lab ID: Data File: Instrument:	Environmental Management Services Highland 20, LLC-0393-01 101307-137 101307-137.049 ICPMS1
Units:	mg/kg (ppm)	Operator:	AP
Internal Standard: Indium	% Recovery: 94	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	245		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S70-2A-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-139 101307-139.050 ICPMS1 AP
Internal Standard: Indium	% Recovery: 90	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	88.7		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S71-2C-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-141 101307-141.051 ICPMS1 AP
Internal Standard: Indium	% Recovery: 87	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	56.2		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S72-2C-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-143 101307-143.053 ICPMS1 AP
Internal Standard Indium	: % Recovery: 90	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	46.5		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S73-2C-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-145 101307-145.054 ICPMS1 AP
Internal Standard: Indium	% Recovery: 90	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	17.6		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S74-2C-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-147 101307-147.055 ICPMS1 AP
Internal Standard Indium	: % Recovery: 96	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	182		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S75-2C-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-149 101307-149.056 ICPMS1 AP
Internal Standard: Indium		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	53.2		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S76-2C-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-151 101307-151.057 ICPMS1 AP
Internal Standard Indium	: % Recovery: 90	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	94.0		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S77-2C-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-153 101307-153.058 ICPMS1 AP
Internal Standard Indium		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	58.4		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S78-2C-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-155 101307-155.059 ICPMS1 AP
Internal Standard Indium		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	179		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S79-2C-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-157 101307-157.060 ICPMS1 AP
Internal Standard: Indium	% Recovery: 90	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	50.0		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S80-2C-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-159 101307-159.061 ICPMS1 AP
Internal Standard: Indium		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	50.4		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S81-2G-6" 01/31/11 02/02/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-161 101307-161.077 ICPMS1 AP
Internal Standard: Indium	% Recovery: 92	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	77.5		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S82-2G-6" 01/31/11 02/02/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-163 101307-163.023 ICPMS1 AP
Internal Standard: Indium	% Recovery: 91	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	37.0		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S83-2G-6" 01/31/11 02/02/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-165 101307-165.024 ICPMS1 AP
Internal Standard: Indium	% Recovery: 95	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	28.7		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S84-2G-6" 01/31/11 02/02/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-167 101307-167.025 ICPMS1 AP
Internal Standard: Indium	% Recovery: 94	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	73.3		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S85-2G-6" 01/31/11 02/02/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-169 101307-169.026 ICPMS1 AP
Internal Standard: Indium	% Recovery: 90	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	47.0		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S86-2G-6" 01/31/11 02/02/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-171 101307-171.028 ICPMS1 AP
Internal Standard		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	134		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S87-2G-6" 01/31/11 02/02/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-173 101307-173.029 ICPMS1 AP
Onits.	ing/kg (ppin)		
		Lower	Upper
Internal Standard	: % Recovery:	Limit:	Limit:
Indium	96	60	125
	Concentration		
Analyte:	mg/kg (ppm)		
Arsenic	126		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S88-2G-6" 01/31/11 02/02/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-175 101307-175.030 ICPMS1 AP
Units.	ing/kg (ppin)		
		Lower	Upper
Internal Standard	: % Recovery:	Limit:	Limit:
Indium	94	60	125
	Concentration		
Analyte:	mg/kg (ppm)		
Arsenic	9.75		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S89-2G-6" 01/31/11 02/02/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-177 101307-177.031 ICPMS1 AP
Internal Standard Indium	% Recovery: 91	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	74.4		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix:	S90-2G-6" 01/31/11 02/02/11 02/03/11 Soil	Client: Project: Lab ID: Data File: Instrument:	Environmental Management Services Highland 20, LLC-0393-01 101307-179 101307-179.032 ICPMS1
Units:	mg/kg (ppm)	Operator:	AP
Internal Standard: Indium	% Recovery: 88	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	44.3		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed:	Method Blank Not Applicable 02/01/11 02/02/11	Client: Project: Lab ID: Data File:	Environmental Management Services Highland 20, LLC-0393-01 I1-69 mb I1-69 mb.008
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP
Internal Standard: Indium	% Recovery: 91	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	<1		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed:	Method Blank Not Applicable 02/01/11 02/02/11	Client: Project: Lab ID: Data File:	Environmental Management Services Highland 20, LLC-0393-01 I1-71 mb I1-71 mb.034
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP
Internal Standard: Indium	% Recovery: 83	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	<1		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted:	Method Blank Not Applicable 02/01/11	Client: Project: Lab ID:	Environmental Management Services Highland 20, LLC-0393-01 I1-72 mb
Date Analyzed:	02/02/11	Data File:	I1-72 mb.061
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP
Internal Standard: Indium	% Recovery: 88	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	<1		

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Blank Not Applicable 02/01/11 02/03/11 12:45:50 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 I1-73 mb I1-73 mb.036 ICPMS1 AP
Internal Standard: Indium		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		

Arsenic

<1

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Arsenic

Client ID:	Method Blank	Environmental Management Services		
Date Received:	Not Applicable	Project:	Highland 20, LLC-0393-01	
Date Extracted:	02/02/11	Lab ID:	I1-75 mb	
Date Analyzed:	02/03/11 10:47:51	Data File:	I1-75 mb.008	
Matrix:	Soil	Instrument:	ICPMS1	
Units:	mg/kg (ppm)	Operator:	AP	
		Lower	Upper	
Internal Standard:	% Recovery:	Limit:	Limit:	
Indium	95	60	125	
	Concentration			
Analyte:	mg/kg (ppm)			

<1

100

ENVIRONMENTAL CHEMISTS

Date of Report: 02/07/11 Date Received: 01/31/11 Project: Highland 20, LLC-0393-01, F&BI 101307

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 101307-35 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	66.5	123 b	197 b	44-151	46 b

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	103	80-120

ENVIRONMENTAL CHEMISTS

Date of Report: 02/07/11 Date Received: 01/31/11 Project: Highland 20, LLC-0393-01, F&BI 101307

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 101307-65 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	46.3	103 b	147 b	44-151	35 b

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	101	80-120

ENVIRONMENTAL CHEMISTS

Date of Report: 02/07/11 Date Received: 01/31/11 Project: Highland 20, LLC-0393-01, F&BI 101307

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 101307-85 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	29.5	102 b	112 b	44-151	9 b

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	98	80-120

ENVIRONMENTAL CHEMISTS

Date of Report: 02/07/11 Date Received: 01/31/11 Project: Highland 20, LLC-0393-01, F&BI 101307

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 101307-135 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	13.2	107 b	131 b	44-151	20 b

		Percent					
	Reporting	Spike	Recovery	Acceptance			
Analyte	Units	Level	LCS	Criteria			
Arsenic	mg/kg (ppm)	10	101	80-120			

ENVIRONMENTAL CHEMISTS

Date of Report: 02/07/11 Date Received: 01/31/11 Project: Highland 20, LLC-0393-01, F&BI 101307

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 101302-11 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	2.03	93 b	100 b	44-151	7 b

		Percent				
	Reporting	Spike	Recovery	Acceptance		
Analyte	Units	Level	LCS	Criteria		
Arsenic	mg/kg (ppm)	10	100	80-120		

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

 $\ensuremath{\text{ip}}$ - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.
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<16-1B-12"	30	\$1			4	4	5			\rightarrow	·		\rightarrow	$\frac{1}{2}$	-					-	JUN 175
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520-1B-12	" 40			•	4	4	'							4							þld
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Company <u>Environment</u>	al Mana	gement Se	rvices, LLC		OJECT NAMI C – 0393-01	E/NO.	High	land	.20 ,			PC)#				lard (2			
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521-2F-12	42			Ĩ														ĺ	blo	
527-2 F-6	43																	Ŕ	w	
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<u>523-2 F - 6"</u>	45											Π						(lun	
<u>523 - 2 F - 12"</u>	46											Π							Nov	
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525-27-6"	49																		Run	
525-2F-12"	50	4										す							hold	
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526-2F-12"	52	<u> </u>			1															NOW
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Send Report To <u>Steve Sp</u>	pencer			PR	JEC'	T NAME/N	IO F	tigh	4 land	20		T	PO	#	-		ard (2 Week	
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540-62-16	80	¥	/		′				i									hold
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Send Report To <u>Steve Sp</u>	encer			SAMP	LERS (sign	ture	X	Ŧ					┓		age # _ URNA	ROUN	_ of _ A D TIME
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<u>542-20-6"</u>	83															Ŕ	UN
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595-20-6"	89															$\int d$	lun.
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Send Report To <u>Steve S</u>	pencer			SAMPL	ERS (signa	ture)	X	Ŧ								ge # JRNAROU	Of OC
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Friedman & Bruya, Inc. 3012 16th Avenue West	Relinquist	SIGN	ATURE	<	PF	RINT	n .		الم	R		SN SN	OMP.	ANY		DATE	
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Send Report To <u>Steve S</u>	pencer				SAMPL				X	Ť								ge # JRNAR	OUNE	of <u>P</u> TIME
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52-2B-12	104																		he	10
553-2B-6	105													\square					Ri	n
53-2B-12	106																		he	140
59-2B-6"	107						-												R	\mathcal{M}
29-12 B-12	108																		h	old
<u>55-2B-6"</u>	109				<u>_</u>														R	UM
55-2B-R"	110				V		41						-	1					Na	old
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Send Report To <u>Steve Spe</u>	encer				ERS (signa			Í	5								age # 'URN	AROUN	D TIME
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City, State, ZIP <u>Tacoma,</u>	WA 984	166		REMAR												Disp	ose a	PLE DISI fter 30 da	
Phone # <u>(253) 921-7059</u>	_Fax #_	<u>(253)</u> – 36	<u> </u>		spencer@en	isgro	oup II	.c.coi	n 									mples vith instr	ructions
									ŕ	ANA	LYS	SES I	REQU	JEST	ΈD	1	1		
Sample ID	Lab ID	Date	Time	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Aveants							Notes
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<u>56 - 28 - 6"</u>	115														<u> </u>	1		R	NU
55 - 2 B - 12"	116																	ĥ	vold
<u>59 - 2 B - 6 "</u>	117											\square						(<	in
<u>559 - ZB - p"</u>	118																	V	10/01
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Send Report To <u>Steve Sp</u>	encor			1	SAMPLI	ERS (signa	ture	$\overline{\nabla}$	7									age # _		of D TIME
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Sample ID	Lab ID	Date	Time	Samŗ	ole Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Avecula							Notes
261-2A-6"	121	1/31		Sc	M	. 1							1						R	wh_
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63 - ZA - 12"	126												\dagger							$\overline{11}$
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$64 - 2A - 12^{41}$	128				<u> </u>				_			_						\square	$\frac{1}{2}$	yor
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Send Report To Steve S	encer			SAMPL	ERS (sign <u>a</u>	ture)	$\overline{\mathbf{x}}$	Ŧ			YE			I	Page # FURNAI	ROUN	_ofO D TIME
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Sample ID	Lab ID	Date	Time	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270 HFS	Avstark						Notes
566-ZA-6"	131	1/31	-	Soul	1											R	UN .
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67-CA-6	133							_								R	m
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63 - 2A - 6	135			· · ·				_	-+				\perp			K	<u>w</u>
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67 - 2A - 6	137						_		_				_			1	ion
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70 - 2A - 12"	139			4	Ŧ				+		$\overline{\mathbf{A}}$					{	nuld
Friedman & Bruya, Inc. 3012 16th Avenue West	Relinquist	SIGN/	ATURE			RINT				X	D	COM		Y		TE 2)	TIME /*:30
Seattle, WA 98119-2029	Received b	y:	5		Kur			Jul				B				<u> </u> 31	10:30
Ph. (206) 285-8282	Relinquish	ed by:					**		<u></u>			····			- <u> </u> '	 	
Fax (206) 283-5044	Received b	y:								Sa	mples	rece	ived	at	₽ <u></u> °C		· · · · · · · · · · · · · · · · · · ·

Send Report To <u>Steve Spencer</u>	SAME	PLERS (signa	ture)	$\overline{\mathcal{A}}$	E 01/31/11	Page	* # of RNAROUND TIME
Company <u>Environmental Management Serv</u>	ices, LLC LLC -	ECT NAME/I - 03 93-0 1	NO. Hight	und 20,	PO #	Standa	rd (2 Weeks)
Address7006 27th Street W, Suite E						Rush cha	rges authorized by:
City, State, ZIP <u>Tacoma, WA 98466</u>	REMA	ARKS					MPLE DISPOSAL after 30 days
Phone #_(253) 921-7059	-6228	sspencer@en	nsgroupllc.	com		Return	samples ll with instructions
	······································			ANAL	YSES REQUEST	ED	
Sample ID Lab ID Date	Time Sample Ty	pe # of containers	TPH-Diesel TPH-Gasoline	BTEX by 8021B VOCs by 8260 SVOCs by 8270	Arsentc		Notes
571-20-6"141 /31	Sot	1			1		Run
71-26-2:1421	· [-	(hold
572-26-6" 143							Run
72-26-12" 144							vold
73-26-6" 145							Run
73 - 2C - 12" 146							hold
74-7-6 147							Rin
74-20-12" 148							hold
75-20-6 149							Run
75-26-12" 150 0	4	\forall				·····	hold
riedman & Bruya, Inc. SONA	PURE	PI	RINT NAM	E	COMPA	NY	DATE TIME
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Send Report ToSteve S	nencer			SAMPLE (ERS (signa	ture)	$\overline{\overline{V}}$	4	\prec				F	. ugc //	UND TIME		
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				· · · · · · · · · · · · · · · · · · ·		 	- T		A	ANALY	SES REQUE	ESTED					
Sample ID	Lab ID	Date	Time	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOC ₈ by 8260	SVOC ₈ by 8270 HFS	sen lo				Notes		
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576-26-12	4 152			1	1										hold		
577-2C-6"	1 153														Run		
577-20-12	n 154														hold		
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178 - 20 - 10	N 156														hold		
5-4-20-6	157														Ry		
579-20-12	158											·	1		hold		
580-2C-6	159														Rin		
550-20-12	160	-		-47	4										hold		
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Send Report To <u>Steve Sp</u>	encer			SAMPLE	ERS (signat	ture)	$\overline{\mathbf{x}}$	Ŧ							age # _ TURN	AROUNI	of / O TIME
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Sample ID	Lab ID	Date	Time	Sample Type	e # of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270 HFS	Arsenh						Notes
$581 - 2(n - 6)^2$	161	1/31		Soil	J											Ň	Lun
587-262-124	162	r		1												Ň	NOLA
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583 - 26-6"	165															Ý	Zin
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584-7 G-6"	167																Lun
$584 - 26 - 12^{4}$	168												_				NIG
$SS - 2G - 6^{ii}$	169										╞╌┼╌┼					7	Lun
585 - ZG- 12"	+ +	4		1	1						-						rold
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Send Report To <u>Steve Sp</u> Company <u>Environment</u>				,	PROJEC	T NAME	/NO.	High	Hand	120,			 P()#					(2 Weeks	
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City, State, ZIP <u>Tacoma</u> , Phone # <u>(253) 921-7059</u>			0 6998		SS	pencer@e	emsgr	oupł	lc.co	m			,			Dispose after 30 days Return samples Will call with instructions				
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Sample ID	ID	Date	Time	Sam	ple Type	containe	ъ TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	13							Notes
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586-2 (n-6)	171	131		S	071	l							}							lon
586-26-12	(172	[)	1	ſ													k	reld
587-2G-6"	173																		R	m
567-26-124	174																		r	vold
558-26-6	175																			RM
488-2G-12"	176																		1	rela
GGa - 2 G2 6"	177																			Ron
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590-26-12"	180	∛ /		<	17	$\overline{\mathbf{A}}$							∕/						1	nabl
Friedman & Bruya, Inc. StONATURE							PRIN	T NA	ME			T		CO	MPA	ANY			DATE	TIME
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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

September 20, 2011

Steve Spencer, Project Manager EcoCon 1912 64th Ave University Place, WA 98466

Dear Mr. Spencer:

Included are the additional results from the testing of material submitted on September 9, 2011 from the Highland Golf-2, F&BI 109118 project. There are 7 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures EMS0920R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 9, 2011 by Friedman & Bruya, Inc. from the EcoCon Highland Golf-2, F&BI 109118 project. Samples were logged in under the laboratory ID's listed below.

EcoCon
S61-22"-9811
S62-24"-9811
S63-24"-9811
S64-24"-9811
S65-24"-9811
S66-24"-9811
S67-24"-9811
S68-24"-9811
S69-24"-9811
S70-24"-9811

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S62-24"-9811 09/09/11 09/12/11 09/12/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	EcoCon Highland Golf-2 109118-02 109118-02.013 ICPMS1 AP
Internal Standard: Holmium	% Recovery: 105	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentratior mg/kg (ppm)	I	
Lead	28.6		

2

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S68-24"-981 09/09/11 09/12/11 09/12/11 Soil mg/kg (ppm	-	Client: Project: Lab ID: Data File: Instrument: Operator:	EcoCon Highland Golf-2 109118-08 109118-08.020 ICPMS1 AP
Internal Standard: Holmium		% Recovery: 102	Lower Limit: 60	Upper Limit: 125
Analyte:		Concentration mg/kg (ppm)		
Lead		30.3		

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S70-24"-9811 09/09/11 09/12/11 09/12/11 Soil mg/kg (ppm)		Client: Project: Lab ID: Data File: Instrument: Operator:	EcoCon Highland Golf-2 109118-10 109118-10.022 ICPMS1 AP
Internal Standard: Holmium	% Reco 10	5	Lower Limit: 60	Upper Limit: 125
Analyte:	Concent mg/kg	a dei o i i		

Lead

116

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Lead

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix:	Method Blank Not Applicable 09/12/11 09/12/11 Soil	Client: Project: Lab ID: Data File: Instrument:	EcoCon Highland Golf-2 I1-633 mb I1-633 mb.008 ICPMS1
Units:	mg/kg (ppm)	Operator:	AP
Laternal Standard	0/ D	Lower	Upper
Internal Standard:		Limit:	Limit:
Holmium	101	60	125
Analyte:	Concentration mg/kg (ppm)		

<1

5

ENVIRONMENTAL CHEMISTS

Date of Report: 09/20/11 Date Received: 09/09/11 Project: Highland Golf-2, F&BI 109118

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 109118-01 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Lead	mg/kg (ppm)	50	8.18	104	102	65-126	2

Laboratory Code: Laboratory Control Sample

			Percent	
		Spike	Recovery	Acceptance
Analyte	Reporting Units	Level	LCS	Criteria
Lead	mg/kg (ppm)	50	104	81-120

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

 $\ensuremath{\text{ip}}$ - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

 ${\rm J}$ - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

109118

Send Report To_Stephe	U Spe	ncer	```
Company ECA			
Address PO BOX 153			

City, State, ZIP 5x ISUND, US

Phone # 2539217059 Fax # 253369 4228

•	SAMPLERS (signature)	Page #of
	PROJECT NAME/NO. PO# High Cond Golf - Z	TURNAROUND TIME Standard (2 Weeks) URUSH ASA? - Rush charges authorized by:
6228	REMARKS ASP-RESULTS by VIZ-11AM	SAMPLE DISPOSAL Dispose after 30 days Return samples Will call with instructions

······		1											A., (UY!	ILS	e al	JEST	ED			
Sample ID	Lado ID	Ð	ate	Time	Sam	ple Type		t of	TPH-Diesel	TPH-Caseline	BIEX by SOLIE	VOCs by same	SVOCe by 8278	HFS	AS-1	Lead					Notes
561-221"-9811	0	٩	/9		S	oil		l							Х					(32-04	-559/14
562-29"-9811	02		L				1	(1	X	\bigotimes					M
563-24" -9811	03														X						
604-24" -981	σų														X						
565-24"-9811	05								1						X						
566-24"-9811	06														X						
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Arsenic Contaminated Soil Corrective Action Plan (Revised)

1400 Highland Parkway Tacoma, Washington

February 16, 2012

Completed For:

Highlands Twenty, LLC Joe Foss, Managing Partner 1400 Highland Parkway Tacoma, Washington

Matthew P. Loxterman Sr. Environmental Scientist

Stephen M. Spencer Principal Environmental Scientist



Prepared By:

ECI | Environmental Consulting. PO Box 153 Tacoma, Washington 98333 (253) 238-9270

ECI Project No.: 0393-02

Table of Contents

1.0	Introduction	. 3
1.1	Background	. 3
1.2	Site Geology	
2.0	Previous Investigations	.4
3.0	Site Remediation	.4
3.1	Sample Collection & Analysis	
3.2	Contaminated Soil Stabilization - Tee Box & Landscaping	. 5
4.0	Site Closure – Voluntary Cleanup Program	. 5
5.0	Conclusion	.6

List of Attachments

Attachment A: Project Figures

- Figure 1: Site Location Map
- Figure 2: Site Topographic Map
- Figure 3: Site Map Area
- Figure 4: Site Map Lot 2A
- Figure 5: Site Map Lot 2B
- Figure 6: Site Map Lot 2C
- Figure 7: Site Map Lot 2D

Attachment B: Previous Environmental Reports

- February 2011 Arsenic Investigation
- September 2011 Arsenic Investigation

1.0 Introduction

EcoCon, Inc. (ECI), at the request of Highland Twenty, LLC, has completed this Corrective Action Plan (CAP) following the identification of arsenic impacted soil on nine prospective building sites in Tacoma, Washington. These sites are located at 1400 Highland Parkway, Tacoma, Washington on Pierce County parcels 4467100700, 4467100660, 4467121270 and 4467121280. ECI understands that the current development plan has been changed to include only four of the original nine lots. The new development plan will include the removal of arsenic impacted soil from four future residential building sites located on two of parcels 4467121270 (lots 2A and 2B) and 4467121280 (lots 2D and 2E), use the impacted soil for improvements to the parent parcels, complete the re-plat separating the newly remediated lots from their original "parent" parcels and apply for a No Further Action Determination (NFA) for the newly remediated and platted lots from the Washington State Department of Ecology (Ecology).

1.1 Objectives

This CAP details the remediation activities selected to bring the four selected site(s) into general compliance with Washington State Model Toxics Control Act (MTCA) Cleanup Regulations (WAC 173-340) and obtain a "No Further Action" (NFA) determination from the Department of Ecology (Ecology).

The objective of this CAP is to evaluate and describe the remedial techniques selected to clean up contaminated site soils impacted by offsite historic actives at the Asarco Smelter located in Ruston, Washington.

1.2 Background

According to the Washington Department of Ecology (Ecology), the Site is located within the Tacoma Asarco Smelter Plume (Smelter Plume)¹. The City of Tacoma has required that the subject Site(s) be assessed for arsenic and lead contamination related to the Smelter Plume. Ecology provides sampling guidelines that stipulate a minimum of ten (10) soil samples be collected per acre or building site at six inch increments.

The Site was historically naturally forested then developed into an 18-hole golf course in the 1930's. Using existing soil and imported soil, the golf course was landscaped. The golf course grounds have been routinely re-landscaped over the past 80 years, gradually reducing the original 18-holes to 9-holes and the construction of a residential community surrounding the golf course. The natural topography of the golf course and adjacent areas consists of a gently rolling landscape having a gross general downward slope to the west. With development and redevelopment of the area some of the rolling

¹ http://www.ecy.wa.gov/programs/tcp/sites/dirt_alert/studies_and_maps/sources.html

topography has been smoothed and some accentuated with the addition of roads, building sites, and fairways.

1.2 Site Geology

Based on test pit excavations completed during a geotechnical survey (Allen L. Hart Engineering Geologist – February 2011), below a layer of sod/topsoil, in non fill areas the site is generally underlain by approximately one to three feet of brown to tan, loose to medium dense, silty sand having a variable gravel content, which in turn is underlain by a tan-to gray, medium dense to very dense, silty sand with a varying gravel content (glacial till, Alderwood Group agricultural soils².)

2.0 Previous Investigations

Initial sampling completed in February 2011 identified Arsenic at concentration exceeding the 20 mg/kg MTCA-A CUL at 95% of the sample locations encompassing each of the original nine building sites extending from the surface to 6 inches bgs (Table 1 – Attached). A second sampling event conducted on Lot 2A (one of the original 9 lots) on September 9, 2011 included the collection of ten soil samples at 18 to 24 inches bgs. Of the 10 sample locations, three were reported exceeding the MTCA-A Arsenic CUL of 20 mg/kg. Total lead was analyzed on each of the three samples reported containing arsenic exceeding the applicable CUL. Total lead concentrations were reported below the 250 mg/kg MTCA-A CUL.

2.1 Regulatory Compliance

Regulatory compliance for this project is provided by the Washington State Department of Ecology (Ecology), Washington Administrative Code (WAC) 173-340, the Model Toxic Control Act (MTCA). Impacted soil investigations and remedial actions must meet the substantive requirements as specified in MTCA. The target point of compliance is meeting the Method A Soil Cleanup Levels for Unrestricted Land Uses – WAC 173-340-900 - Table 740-1. Specifically, the cleanup level for total arsenic (20 mg/kg) and total lead (250 mg/kg).

3.0 Site Remediation

Using excavation equipment the top 12 inches of soil will be excavated and transferred to a receiving area located approximately 200 feet away from the excavation area (Figure 2). Each lot is expected to contain 200 to 300 cubic yards of impacted soil. After the soil transfer, the receiving area will be landscaped into a tee box³ or other golf course features (see "Contaminated Soil Stabilization - Tee Box & Landscaping" - below). Six millimeter plastic will be used to cover the soil until tee box / landscape construction is completed.

² http://www.dnr.wa.gov/ResearchScience/Topics/GeologyofWashington/Pages/lowland.aspx

³ The "tee box" is just another term for teeing ground. The teeing ground is the starting point on each hole of a golf course. It's the area covered by the space in-between two tee markers and two-club-lengths back from the tee markers.

Following the removal of the initial 12 inches of soil, samples will be collected at 10 select locations and analyzed for arsenic and lead. Sample results will be expedited to assist in any additional excavation beyond 12 inches bgs. This process will be repeated every 12 inches until sample results are reported below applicable CULs. Based on previous sampling events (September 2011) and subsurface geology, specifically glacial till (till) formations identified in the 2011 geotechnical survey (Allen L. Hart Engineering – 2011) impacted soil is not expected to extend below 36 inches bgs.

3.1 Sample Collection & Analysis

Soil samples will be collected following each 12 inch excavation activity. Each sample will be collected by a properly trained environmental professional using industry standard sampling techniques. At each of the ten sample locations, a discrete sample will be collected extending approximately 6 inches below existing grade using properly decontaminated sampling equipment and donning disposable personal protective equipment (e.g. nitrile gloves, eye protection). One new 4-ounce laboratory provided sample jar with teflon lined lid will be filled, assigned a unique identification number and stored in a climate controlled container maintained at 4° Celsius. Following sample collection, the samples will be delivered to a properly accredited laboratory under industry standard Chain of Custody. Each sample will be analyzed for arsenic and lead by EPA Method 200.8.

3.2 Contaminated Soil Stabilization – Golf Course Landscaping

Soil transported from each of the remediation sites will be stockpiled / landscaped to allow for golf features construction following transfer activites. The landscaped surface (soil surface) will be graded and covered with plastic daily during import and landscape activites. Stormwater best management practices will be implemented as necessary, and as described in the City of Tacoma approved temporary erosion and sediment control (TESC) plan. Final grade will be landscaped and incorporated into existing golf course features and seeded per golf course specifications.

3.2 Health & Safety

A site specific health and safety plan will be completed addressing hazards associated with known contaminates, proposed excavation activities and outlining working conditions and worker exposure.

All site workers and inspectors conducting compliance inspections must have the following minimum training:

- 1. 40 hour Hazardous Waste Sites training as required by OSHA or
- 2. Certification showing completion of the annual Refresher for Hazardous Waste sites (8 hour), if applicable.

4.0 Site Closure Reporting – Voluntary Cleanup Program

Following excavation and confirmation sampling activities a report will be prepared detailing remediation activities, sampling activities and analytical results.

Each of the four sites will be entered separately into the Washington State Voluntary Cleanup Program (VCP) with the intent to receive a No Further Action (NFA) determination. Collaboration with Ecology both through the use of this work plan and continued communication, prior to, during and following corrective action activities is expected to meet all requirements outlined within the Washington Administrative Code (WAC) 173-340: Model Toxic Control Act (MTCA).

5.0 Conclusion

The purpose of this work plan is to provide corrective action guidelines during construction activities. As with all projects, the more information gathered in the planning stages, the less possibility of plan deviation or need for contingencies. As identified in the previous investigations, the top six inches of soil is impacted with arsenic exceeding the MTCA-A cleanup level of 20 mg/kg. What is not known is the vertical extent (depth) of impacted soil. Sample results from the September 2011 sampling event identified arsenic at 35% of sample locations at 18 to 24 inches bgs. Glacial till or "hard pan" was identified during the 2011 Geotechnical Assessment (Hart - 2011) at depths ranging from 12 to 36 inches bgs throughout the site(s). Total excavation depth is not expected to exceed 24 inches bgs except at a minimal number of locations on each Lot.

Specific activities with regard to the excavation and management of impacted soil and the installation of the final landscape will vary, however the intent remains constant, to remove impacted soil exceeding applicable cleanup levels, and apply for a No Further Action determination on each of the four newly subdivided lots.

Following construction, a summary report detailing the specific corrective action will be completed and submitted to Ecology, with a request for a No Further Action determination.

Attachment A

Project Figures

Figure 1: Site Location Map Figure 2: Site Topographic Map Figure 3: Site Map - Area Figure 4: Site Map – Lot 2A Figure 5: Site Map – Lot 2B Figure 6: Site Map – Lot 2C Figure 7: Site Map – Lot 2D







Site Topographic Map 1400 Highlands Parkway North Tacoma, Washington

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Projec	t No.:	0393-03	Sheet 01 of 01
Versio	n:	ECI-002	
Revie	wed By.:	S.Spencer	
Comp	leted By	: M. Kennendy	
Date:		January 17, 2012	Figure No.:

Not To Scale


Tacoma, Washington

Not To Scale

environmental consulting







	Lot 2B 1400 Highlands Parkway North	Date: January 17, 2012 Completed By: M. Kennendy Reviewed By.: S.Spencer Version: ECI-002 Project No.: 0393-03
Not To Scale	Tacoma, Washington	ECI environmental consulting







Attachment B

Previous Environmental Reports

February 2011 Arsenic Investigation September 2011 Arsenic Investigation





February 11, 2011

Highlands Twenty, LLC C/o Kevin Foley Baseline Engineering 1910 64th Avenue Fircrest, WA 98466

Re: Surface Soil Investigation 1400 Highland Parkway Tacoma, Washington

Dear Mr. Foley:

Environmental Management Services, LLC (EMS), at the request of Highland Twenty, LLC, completed a focused, surface soil environmental investigation. This investigation was conducted on nine proposed residential building sites located on portions of Pierce County Parcels 4467100210, 4467100660, 4467121280, 4467121270 located in Tacoma Washington (Subject Properties – Figures 1-12).

According to the Washington Department of Ecology (Ecology), the Site is located within the Tacoma Asarco Smelter Plume (Smelter Plume)¹. The City of Tacoma has required that, if the properties are to be developed, the Subject Properties will need to be assessed for surface arsenic contamination related to the Smelter Plume. Ecology provides sampling guidelines that stipulate a minimum of ten (10) soil samples be collected per acre at six inch increments starting at the surface elevation.

The goal of this project was to comply with the City of Tacoma and Ecology surface soil sampling requirements. The arsenic sampling methodology includes the collection of soil samples at two elevations (0-6" and 6-12") from ten (10) sample points on each of the nine properties.

Soil Sampling Activities

EMS completed sampling activities at the Site on January 30 and 31, 2011. Ten sample locations were randomly selected on each of the nine proposed building sites (Figures 4-12). The Washington State administrative code (WAC) 173-340 (Model Toxic Control Act) Method A

¹ http://www.ecy.wa.gov/programs/tcp/sites/dirt_alert/studies_and_maps/sources.html

Environmental Management Services, LLC | an emsgroup company Phone: (253) 238-9270 | Fax: (253) 369-6228 | ems@emsgroupllc.com

(MTCA-A) Cleanup Levels for Unrestricted Land Use for arsenic in soil is 20 milligram per kilogram (mg/kg). Of the ninety (90) 0-6" sample locations, eighty three (83) were reported exceeding the MTCA-A cleanup level of 20 mg/kg. The remaining seven (7) samples were reported below the MTCA-A cleanup level. Provided in Attachment A are figures 4-12, the project sample location maps identifying each of the sample locations.

EMS collected 180 discrete soil samples, 20 samples from each of the nine proposed building locations. Ten (10) samples from zero to six inches below ground surface (bgs) and 10 from 6 to 12 inches bgs. Each discrete soil sample was collected by a properly trained sampling technician using appropriately decontaminated sampling equipment.

Each soil sample was placed into new laboratory provided sampling containers and labeled using a unique sample identification number. Samples were delivered under industry standard chain of custody to Freidman & Bruya, Inc., an Ecology accredited laboratory for chemical analysis.

Laboratory Analysis

The soil samples collected from the depth of 0-6" were analyzed for Total Arsenic (As) by Environmental Protection Agency (EPA) Method 6020 (Attachment C – Laboratory Results). Seven soil samples, S20-1B, S28-2F, S50-2D, S54-2B, S68-2A, S73-2C and S88-2G were reported below the 20 mg/kg cleanup level.

The remaining 83 samples were reported exceeding the 20 mg/kg cleanup level. Concentration ranged from 20.1 mg/kg to 245 mg/kg. (Attachment B -Project Tables - Table 1 - Soil Sample Results - Total Arsenic).

Summary

Based on soil sample analysis, soil impacted with arsenic exceeding the MTCA-A cleanup limit of 20 mg/kg was identified on each of the nine proposed building sites. Further assessment to delineate the vertical and horizontal extent of impacted soil may be necessary to properly ascertain remediation or mitigation costs.

In order to develop the sites, the arsenic impacted soil will need to be addressed. Remediation or mitigation of the impacted soil can be incorporated in to the development of the property. However, an approved work plan addressing the proposed corrective action should be competed prior to construction to eliminate construction delays.

Environmental Management Services, LLC | an emsgroup company Phone: (253) 238-9270 | Fax: (253) 369-6228 | ems@emsgroupllc.com

EMS appreciates the opportunity to provide environmental services on this project. Should you have any questions, please contact our office at 253-921-7059.

Environmental Management Services, LLC

Stephen Spencer Principal

Encl:

Attachment A – Project Figures

- Figure 1 Site Location Map
- Figure 2 Site Topographic Map
- Figure 3 Sample Location Map

Attachment B – Project Tables

- Table 1 Soil Sample Results Total Arsenic
- MTCA-A Unrestricted Cleanup Levels for Unrestricted Land Use

Attachment C - Laboratory Results

Sample Analytical Results

• Analytical Results & Chain of Custody

Attachment D – Professional Qualifications

Page 3

Attachment A

Project Figures

Figure 1 - Site Location Map Figure 2 - Site Topographic Map Figure 3 - Sample Location Map





Site Location Map
1400 Highlands Parkway North
Tacoma, WashingtonDate:
Completed:
Checked By:
EMS Project No:February 10, 2011
OutlingFigure No.Date:
Completed:
EMS Project No:Figure No.01









Site Map 1400 Highlands Parkway North Tacoma, Washington Date:February 10, 2011Completed:K. SpencerChecked By:S. SpencerEMS Project No:0393-01

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Sample Location Map Lot 2B 1400 Highlands Parkway North Tacoma, Washington

K. Spencer

S. Spencer

Lot 2B

Completed:

Checked By:

EMS Project No: 0393-01











Attachment B

Project Tables

Table 1 - Arsenic Sample ResultsMTCA-A Unrestricted Cleanup Levels for Unrestricted Land Use

Environmental

www.emsgrouplic.



				EPA 6020
Sample Number	Sample Location	Sample Depth	Sample Date	Total Matala Araania (Aa)
				Total Metals - Arsenic (As) mg/kg
		G LOT 1A		ingrig
S1-A1-6"	LOT1A	0-6"	1/30/2011	<u>79.1</u>
S2-A1-6"	LOT1A	0-6"	1/30/2011	<u>92.7</u>
S3-A1-6"	LOT1A	0-6"	1/30/2011	<u>104.0</u>
S4-A1-6"	LOT1A	0-6"	1/30/2011	<u>190.0</u>
S5-A1-6"	LOT1A	0-6"	1/30/2011	<u>29.3</u>
S6-A1-6"	LOT1A	0-6"	1/30/2011	<u>83.8</u>
S7-A1-6"	LOT1A	0-6"	1/30/2011	<u>253.0</u>
S8-A1-6"	LOT1A	0-6"	1/30/2011	<u>42.9</u>
S9-A1-6"	LOT1A	0-6"	1/30/2011	<u>157.0</u>
S10-A1-6"	LOT1A	0-6"	1/30/2011	<u>66.5</u>
BUILDING LOT 1B				
S11-1B-6"	LOT1B	0-6"	1/30/2011	<u>43.2</u>
S12-1B-6"	LOT1B	0-6"	1/30/2011	<u>102.0</u>
S13-1B-6"	LOT1B	0-6"	1/30/2011	<u>52.7</u>
S14-1B-6"	LOT1B	0-6"	1/30/2011	<u>53.6</u>
S15-1B-6"	LOT1B	0-6"	1/30/2011	<u>55.5</u>
S16-1B-6"	LOT1B	0-6"	1/30/2011	<u>231.0</u>
S17-1B-6"	LOT1B	0-6"	1/30/2011	<u>60.5</u>
S18-1B-6"	LOT1B	0-6"	1/30/2011	<u>66.5</u>
S19-1B-6"	LOT1B	0-6"	1/30/2011	<u>59.5</u>
S20-1B-6"	LOT1B	0-6"	1/30/2011	8.5



				EPA 6020
Sample Number	Sample Location	Sample Depth	Sample Date	Total Metals - Arsenic (As)
				mg/kg
	BUILDING	LOT 2F		
S21-2F-6"	LOT2F	0-6"	1/30/2011	<u>62.1</u>
S22-2F-6"	LOT2F	0-6"	1/30/2011	<u>59.7</u>
S23-2F-6"	LOT2F	0-6"	1/30/2011	<u>77.0</u>
S24-2F-6"	LOT2F	0-6"	1/30/2011	<u>29.2</u>
S25-2F-6"	LOT2F	0-6"	1/30/2011	<u>43.5</u>
S26-2F-6"	LOT2F	0-6"	1/30/2011	<u>52.0</u>
S27-2F-6"	LOT2F	0-6"	1/30/2011	<u>47.2</u>
S28-2F-6"	LOT2F	0-6"	1/30/2011	11.4
S29-2F-6"	LOT2F	0-6"	1/30/2011	<u>37.7</u>
S30-2F-6"	LOT2F	0-6"	1/30/2011	<u>27.5</u>
BUILDING LOT 2E				
S31-2E-6"	LOT2E	0-6"	1/30/2011	<u>33.7</u>
S32-2E-6"	LOT2E	0-6"	1/30/2011	<u>23.6</u>
S33-2E-6"	LOT2E	0-6"	1/30/2011	<u>46.3</u>
S34-2E-6"	LOT2E	0-6"	1/30/2011	<u>41.7</u>
S35-2E-6"	LOT2E	0-6"	1/30/2011	<u>84.3</u>
S36-2E-6"	LOT2E	0-6"	1/30/2011	<u>28.4</u>
S37-2E-6"	LOT2E	0-6"	1/30/2011	<u>23.7</u>
S38-2E-6"	LOT2E	0-6"	1/30/2011	<u>42.0</u>
S39-2E-6"	LOT2E	0-6"	1/30/2011	<u>55.2</u>
S40-2E-6"	LOT2E	0-6"	1/30/2011	<u>37.9</u>



				EPA 6020
Sample Number	Sample Location	Sample Depth	Sample Date	Total Metals - Arsenic (As)
				mg/kg
	BUILDING	LOT 2D		
S41-2D-6"	LOT2D	0-6"	1/30/2011	<u>117.0</u>
S42-2D-6"	LOT2D	0-6"	1/30/2011	<u>20.6</u>
S43-2D-6"	LOT2D	0-6"	1/30/2011	<u>29.5</u>
S44-2D-6"	LOT2D	0-6"	1/30/2011	<u>33.8</u>
S45-2D-6"	LOT2D	0-6"	1/30/2011	<u>33.7</u>
S46-2D-6"	LOT2D	0-6"	1/30/2011	<u>23.4</u>
S47-2D-6"	LOT2D	0-6"	1/30/2011	<u>31.0</u>
S48-2D-6"	LOT2D	0-6"	1/30/2011	<u>30.7</u>
S49-2D-6"	LOT2D	0-6"	1/30/2011	<u>49.8</u>
S50-2D-6"	LOT2D	0-6"	1/30/2011	14.9
BUILDING LOT 2B				
S51-2B-6"	LOT2B	0-6"	1/30/2011	<u>63.6</u>
S52-2B-6"	LOT2B	0-6"	1/30/2011	<u>20.1</u>
S53-2B-6"	LOT2B	0-6"	1/30/2011	<u>25.2</u>
S54-2B-6"	LOT2B	0-6"	1/30/2011	18.1
S55-2B-6"	LOT2B	0-6"	1/30/2011	<u>38.8</u>
S56-2B-6"	LOT2B	0-6"	1/30/2011	<u>43.2</u>
S57-2B-6"	LOT2B	0-6"	1/30/2011	<u>120.0</u>
S58-2B-6"	LOT2B	0-6"	1/30/2011	<u>61.0</u>
\$59-2B-6"	LOT2B	0-6"	1/30/2011	<u>37.3</u>
S60-2B-6"	LOT2B	0-6"	1/30/2011	<u>253.0</u>



				EPA 6020
Sample Number	Sample Location	Sample Depth	Sample Date	Total Metals - Arsenic (As)
				mg/kg
	BUILDIN	G LOT 2A		
S61-2A-6"	LOT2A	0-6"	1/30/2011	<u>138.0</u>
S62-2A-6"	LOT2A	0-6"	1/30/2011	<u>119.0</u>
S63-2A-6"	LOT2A	0-6"	1/30/2011	33.7
S64-2A-6"	LOT2A	0-6"	1/30/2011	58.7
S65-2A-6"	LOT2A	0-6"	1/30/2011	<u>173.0</u>
S66-2A-6"	LOT2A	0-6"	1/30/2011	240.0
S67-2A-6"	LOT2A	0-6"	1/30/2011	52.4
S68-2A-6"	LOT2A	0-6"	1/30/2011	13.2
	LOT2A	0-6"	1/30/2011	245.0
	LOT2A	0-6"	1/30/2011	88.7
BUILDING LOT 2C				
S71-2C-6"	LOT2C	0-6"	1/30/2011	56.2
S72-2C-6"	LOT2C	0-6"	1/30/2011	46.5
S73-2C-6"	LOT2C	0-6"	1/30/2011	17.6
S74-2C-6"	LOT2C	0-6"	1/30/2011	<u>182.0</u>
S75-2C-6"	LOT2C	0-6"	1/30/2011	53.2
S76-2C-6"	LOT2C	0-6"	1/30/2011	<u>94.0</u>
S77-2C-6"	LOT2C	0-6"	1/30/2011	<u>58.4</u>
S78-2C-6"	LOT2C	0-6"	1/30/2011	<u>179.0</u>
S79-2C-6"	LOT2C	0-6"	1/30/2011	<u>50.0</u>
S80-2C-6"	LOT2C	0-6"	1/30/2011	<u>50.4</u>



February 11, 2011

				EPA 6020
Sample Number	Sample Location	Sample Depth	Sample Date	Total Metals - Arsenic (As) mg/kg
	BUILDING	LOT 2G		
S81-2G-6"	LOT2G	0-6"	1/30/2011	<u>77.5</u>
S82-2G-6"	LOT2G	0-6"	1/30/2011	<u>37.0</u>
S83-2G-6"	LOT2G	0-6"	1/30/2011	<u>28.7</u>
S84-2G-6"	LOT2G	0-6"	1/30/2011	<u>73.3</u>
S85-2G-6"	LOT2G	0-6"	1/30/2011	<u>47.0</u>
S86-2G-6"	LOT2G	0-6"	1/30/2011	<u>134.0</u>
S87-2G-6"	LOT2G	0-6"	1/30/2011	<u>126.0</u>
S88-2G-6"	LOT2G	0-6"	1/30/2011	9.8
S89-2G-6"	LOT2G	0-6"	1/30/2011	<u>74.4</u>
S90-2G-6"	LOT2G	0-6"	1/30/2011	<u>44.3</u>
METHOD BLANK	NA	NA	2/1/2011	<1
	1			
Model Toxic Control Act (MTCA) Method A Cleanup Levels For Soil				20

BOLD/<u>Underlined</u> = Analyte above MTCA 2001 Method A Cleanup levels for arsenic in soil.

Values are reported in milligrams per kilograms (mg/kg).

< # (ND) = analyte not detected above the analytical method reporting limit cited.

MTCA 2001 Method A Cleanup Levels for Unrestricted Residential Land Use - (MTCA) WAC 173-340-900 Tables.

bgs=below ground surface

NA=Not Applicable

Attachment C

Laboratory Results

Analytical Results Analytical Chain of Custody



ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

February 7, 2011

Steve Spencer, Project Manager Environmental Management Services, LLC 7006 27th Street W, Suite E Tacoma, WA 98466

Dear Mr. Spencer:

Included are the results from the testing of material submitted on January 31, 2011 from the Highland 20, LLC-0393-01, F&BI 101307 project. There are 106 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures EMS0207R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 31, 2011 by Friedman & Bruya, Inc. from the Environmental Management Services, Highland 20, LLC-0393-01, F&BI 101307 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	<u>Environmental Management Services, LLC</u>
<u>101307-01</u>	S1-A1-6"
101307-02	S1-A1-12"
101307-03	S2-A1-6"
101307-04	S2-A1-12"
101307-05	S3-A1-6"
101307-06	S3-A1-12"
101307-07	S4-A1-6"
101307-08	S4-A1-12"
101307-09	S5-A1-6"
101307-10	S5-A1-12"
101307-11	S6-A1-6"
101307-12	S6-A1-12"
101307-13	S7-A1-6"
101307-14	S7-A1-12"
101307-15	S8-A1-6"
101307-16	S8-A1-12"
101307-17	S9-A1-6"
101307-18	S9-A1-12"
101307-19	S10-A1-6"
101307-20	S10-A1-12"
101307-21	S11-1B-6"
101307-22	S11-1B-12"
101307-23	S12-1B-6"
101307-24	S12-1B-12"
101307-25	S13-1B-6"
101307-26	S13-1B-12"
101307-27	S14-1B-6"
101307-28	S14-1B-12"
101307-29	S15-1B-6"
101307-30	S15-1B-12"
101307-31	S16-1B-6"
101307-32	S16-1B-12"
101307-33	S17-1B-6"
101307-34	S17-1B-12"
101307-35	S18-1B-6"
101307-36	S18-1B-12"
101307-37	S19-1B-6"
101307-38	S19-1B-12"
101307-39	S20-1B-6"

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (continued)

Laboratory ID	<u>Environmental Management Services, LLC</u>
<u>101307-40</u>	S20-1B-12"
101307-41	S21-2F-6"
101307-42	S21-2F-12"
101307-42	S22-2F-6"
101307-44	S22-2F-12"
101307-45	S23-2F-6"
101307-46	S23-2F-12"
101307-47	S24-2F-6"
101307-48	S24-2F-12"
101307-49	S25-2F-6"
101307-50	S25-2F-12"
101307-51	S26-2F-6"
101307-52	S26-2F-12"
101307-53	S27-2F-6"
101307-54	S27-2F-12"
101307-55	S28-2F-6"
101307-56	S28-2F-12"
101307-57	S29-2F-6"
101307-58	S29-2F-12"
101307-59	S30-2E-6"
101307-60	S30-2E-12"
101307-61	S31-2E-6"
101307-62	S31-2E-12"
101307-63	S32-2E-6"
101307-64	S32-2E-12"
101307-65	S33-2E-6"
101307-66	S33-2E-12"
101307-67	S34-2E-6"
101307-68	S34-2E-12"
101307-69	S35-2E-6"
101307-70	S35-2E-12"
101307-71	S36-2E-6"
101307-72	S36-2E-12"
101307-73	S37-2E-6"
101307-74	S37-2E-12"
101307-75	S38-2E-6"
101307-76	S38-2E-12"
101307-77	S39-2E-6"
101307-78	S39-2E-12"
101307-79	S40-2E-6"
101307-80	S40-2E-12"
101307-81	S41-2D-6"

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (continued)

Laboratory IDEnvironmental Management Services, LLC101307-82S41-2D-12"101307-83S42-2D-6"101307-84S42-2D-12"101307-85S43-2D-6"101307-86S43-2D-12"101307-87S44-2D-6"101307-88S44-2D-12"101307-89S45-2D-6"101307-90S45-2D-12"101307-91S46-2D-6"101307-92S46-2D-12"101307-93S47-2D-12"101307-94S47-2D-6"101307-95S48-2D-12"101307-96S48-2D-12"101307-97S49-2D-6"101307-98S49-2D-12"101307-99S50-2D-6"101307-90S50-2D-12"101307-101S51-2B-6"101307-102S51-2B-12"101307-103S52-2B-6"101307-104S52-2B-12"101307-105S53-2B-6"101307-106S53-2B-12"101307-107S54-2B-6"101307-108S54-2B-12"101307-109S55-2B-6"101307-111S56-2B-12"101307-112S56-2B-12"101307-114S57-2B-6"	Laboratory ID	Environmental Management Services, LLC
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ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (continued)

Lativitation101307-124S62-2A.12"101307-125S63-2A.6"101307-126S63-2A.12"101307-127S64-2A.6"101307-128S64-2A.12"101307-129S65-2A.6"101307-130S65-2A.12"101307-131S66-2A.6"101307-132S66-2A.6"101307-133S67-2A.6"101307-134S67-2A.6"101307-135S68-2A.6"101307-136S68-2A.6"101307-137S69-2A.12"101307-138S69-2A.12"101307-139S70-2A.6"101307-140S70-2A.6"101307-141S71-2C-6"101307-142S71-2C-12"101307-143S72-2C-6"101307-144S73-2C-6"101307-145S73-2C-6"101307-148S74-2C-6"101307-150S75-2C-6"101307-151S76-2C-6"101307-153S78-2C-6"101307-154S77-2C-12"101307-155S78-2C-6"101307-154S77-2C-12"101307-155S78-2C-6"101307-154S77-2C-12"101307-155S78-2C-6"101307-156S78-2C-6"101307-158S79-2C-12"101307-164S82-2C-12"101307-164S82-2C-12"101307-164S82-2C-12"101307-165S83-2C-6"101307-161S82-2C-6"101307-161S82-2C-6"101307-161S82-2C-6"101307-161S82-2C-6"101307-161S82-2C-6"101307-	Laboratory ID	Environmental Management Services, LLC
101307-125 $S63-2A-6"$ $101307-126$ $S63-2A-12"$ $101307-127$ $S64-2A-6"$ $101307-128$ $S64-2A-12"$ $101307-129$ $S65-2A-6"$ $101307-130$ $S65-2A-12"$ $101307-131$ $S66-2A-6"$ $101307-132$ $S66-2A-6"$ $101307-133$ $S67-2A-6"$ $101307-134$ $S67-2A-6"$ $101307-135$ $S68-2A-6"$ $101307-136$ $S68-2A-6"$ $101307-137$ $S69-2A-6"$ $101307-138$ $S69-2A-6"$ $101307-139$ $S70-2A-6"$ $101307-141$ $S71-2C-6"$ $101307-142$ $S71-2C-6"$ $101307-143$ $S72-2C-6"$ $101307-144$ $S72-2C-6"$ $101307-145$ $S73-2C-6"$ $101307-146$ $S73-2C-6"$ $101307-148$ $S74-2C-12"$ $101307-149$ $S75-2C-6"$ $101307-151$ $S76-2C-6"$ $101307-151$ $S76-2C-6"$ $101307-151$ $S76-2C-6"$ $101307-154$ $S77-2C-6"$ $101307-155$ $S78-2C-6"$ $101307-154$ $S77-2C-6"$ $101307-155$ $S78-2C-6"$ $101307-156$ $S78-2C-6"$ $101307-157$ $S79-2C-6"$ $101307-161$ $S81-2G-12"$ $101307-161$ $S81-2G-6"$ $101307-161$ $S81-2G-6"$ $101307-164$ $S82-2G-6"$	•	Ũ
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101307-127 $S64-2A-6"$ $101307-128$ $S64-2A-12"$ $101307-129$ $S65-2A-6"$ $101307-130$ $S65-2A-6"$ $101307-131$ $S66-2A-6"$ $101307-132$ $S66-2A-6"$ $101307-134$ $S67-2A-6"$ $101307-135$ $S68-2A-6"$ $101307-136$ $S68-2A-6"$ $101307-137$ $S69-2A-6"$ $101307-138$ $S69-2A-6"$ $101307-139$ $S70-2A-6"$ $101307-140$ $S70-2A-6"$ $101307-141$ $S71-2C-6"$ $101307-142$ $S71-2C-6"$ $101307-143$ $S72-2C-6"$ $101307-144$ $S72-2C-6"$ $101307-145$ $S73-2C-6"$ $101307-146$ $S73-2C-12"$ $101307-148$ $S74-2C-6"$ $101307-151$ $S76-2C-6"$ $101307-151$ $S76-2C-6"$ $101307-154$ $S77-2C-12"$ $101307-155$ $S78-2C-6"$ $101307-154$ $S77-2C-6"$ $101307-154$ $S77-2C-6"$ $101307-155$ $S78-2C-6"$ $101307-154$ $S79-2C-12"$ $101307-155$ $S78-2C-6"$ $101307-156$ $S78-2C-6"$ $101307-157$ $S79-2C-6"$ $101307-158$ $S79-2C-12"$ $101307-160$ $S80-2C-6"$ $101307-161$ $S81-2G-6"$ $101307-161$ $S81-2G-6"$ $101307-164$ $S82-2G-6"$		
101307-128 $S64-2A-12"$ $101307-129$ $S65-2A-6"$ $101307-130$ $S65-2A-12"$ $101307-131$ $S66-2A-6"$ $101307-132$ $S66-2A-12"$ $101307-133$ $S67-2A-6"$ $101307-134$ $S67-2A-12"$ $101307-135$ $S68-2A-6"$ $101307-136$ $S68-2A-12"$ $101307-137$ $S69-2A-6"$ $101307-138$ $S69-2A-6"$ $101307-139$ $S70-2A-6"$ $101307-140$ $S70-2A-12"$ $101307-141$ $S71-2C-6"$ $101307-142$ $S71-2C-6"$ $101307-144$ $S72-2C-6"$ $101307-145$ $S73-2C-6"$ $101307-146$ $S73-2C-12"$ $101307-147$ $S74-2C-6"$ $101307-148$ $S74-2C-12"$ $101307-149$ $S75-2C-6"$ $101307-150$ $S75-2C-12"$ $101307-151$ $S76-2C-6"$ $101307-153$ $S77-2C-6"$ $101307-154$ $S77-2C-12"$ $101307-155$ $S78-2C-12"$ $101307-154$ $S77-2C-6"$ $101307-154$ $S77-2C-6"$ $101307-155$ $S78-2C-6"$ $101307-156$ $S78-2C-12"$ $101307-157$ $S79-2C-6"$ $101307-158$ $S79-2C-6"$ $101307-160$ $S80-2C-12"$ $101307-161$ $S81-2G-6"$ $101307-161$ $S81-2G-6"$ $101307-161$ $S82-2G-6"$ $101307-164$ $S82-2G-12"$		
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101307-159S80-2C-6"101307-160S80-2C-12"101307-161S81-2G-6"101307-162S81-2G-12"101307-163S82-2G-6"101307-164S82-2G-12"		
101307-160S80-2C-12"101307-161S81-2G-6"101307-162S81-2G-12"101307-163S82-2G-6"101307-164S82-2G-12"	101307-158	
101307-161S81-2G-6"101307-162S81-2G-12"101307-163S82-2G-6"101307-164S82-2G-12"		
101307-162S81-2G-12"101307-163S82-2G-6"101307-164S82-2G-12"		
101307-163S82-2G-6"101307-164S82-2G-12"		
101307-164 S82-2G-12"		
101307-165 S83-2G-6"		
	101307-165	S83-2G-6"

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (continued)

Laboratory ID	Environmental Management Services, LLC
101307-166	S83-2G-12"
101307-167	S84-2G-6"
101307-168	S84-2G-12"
101307-169	S85-2G-6"
101307-170	S85-2G-12"
101307-171	S86-2G-6"
101307-172	S86-2G-12"
101307-173	S87-2G-6"
101307-174	S87-2G-12"
101307-175	S88-2G-6"
101307-176	S88-2G-12"
101307-177	S89-2G-6"
101307-178	S89-2G-12"
101307-179	S90-2G-6"
101307-180	S90-2G-12"

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S1-A1-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-01 101307-01.013 ICPMS1 AP
Internal Standard: Indium	% Recovery: 90	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	79.1		
ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S2-A1-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-03 101307-03.014 ICPMS1 AP
Internal Standard: Indium	% Recovery: 93	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	92.7		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S3-A1-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-05 101307-05.015 ICPMS1 AP
Internal Standard Indium	% Recovery: 91	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	104		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S4-A1-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-07 101307-07.016 ICPMS1 AP
Internal Standard		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	190		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S5-A1-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-09 101307-09.017 ICPMS1 AP
Internal Standard: Indium	% Recovery: 89	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	29.3		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S6-A1-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-11 101307-11.019 ICPMS1 AP
Internal Standard Indium		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	83.8		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S7-A1-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-13 101307-13.020 ICPMS1 AP
Internal Standard Indium	: % Recovery: 92	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	253		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S8-A1-6" 01/31/11 02/01/11 02/02/11 Soil	Client: Project: Lab ID: Data File: Instrument:	Environmental Management Services Highland 20, LLC-0393-01 101307-15 101307-15.021 ICPMS1 AP
Units:	mg/kg (ppm)	Operator:	AP
		Lower	Upper
Internal Standard	: % Recovery:	Limit:	Limit:
Indium	82	60	125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	42.9		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S9-A1-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-17 101307-17.022 ICPMS1 AP
Internal Standard: Indium	% Recovery: 91	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	157		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S10-A1-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-19 101307-19.023 ICPMS1 AP
Internal Standard: Indium	% Recovery: 92	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	66.5		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S11-1B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-21 101307-21.024 ICPMS1 AP
Internal Standard Indium	: % Recovery: 88	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	43.2		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S12-1B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-23 101307-23.025 ICPMS1 AP
Internal Standard Indium		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	102		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S13-1B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-25 101307-25.026 ICPMS1 AP
Internal Standard: Indium	% Recovery: 88	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	52.7		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S14-1B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-27 101307-27.027 ICPMS1 AP
Internal Standard: Indium	% Recovery: 90	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	53.6		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S15-1B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-29 101307-29.029 ICPMS1 AP
Internal Standard: Indium	% Recovery: 90	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	55.5		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S16-1B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-31 101307-31.030 ICPMS1 AP
Internal Standard: Indium	% Recovery: 93	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	231		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S17-1B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-33 101307-33.031 ICPMS1 AP
Internal Standard: Indium	% Recovery: 89	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	60.5		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S18-1B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-35 101307-35.010 ICPMS1 AP
Internal Standard: Indium	% Recovery: 92	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	66.5		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S19-1B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-37 101307-37.032 ICPMS1 AP
Internal Standard: Indium		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	59.5		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S20-1B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-39 101307-39.033 ICPMS1 AP
Internal Standard Indium	% Recovery: 87	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	8.50		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix:	S21-2F-6" 01/31/11 02/01/11 02/02/11 Soil	Client: Project: Lab ID: Data File: Instrument:	Environmental Management Services Highland 20, LLC-0393-01 101307-41 101307-41.040 ICPMS1
Units:	mg/kg (ppm)	Operator:	AP
Internal Standard: Indium	% Recovery: 85	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	62.1		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S22-2F-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-43 101307-43.041 ICPMS1 AP
Internal Standard: Indium	% Recovery: 89	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	59.7		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S23-2F-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-45 101307-45.042 ICPMS1 AP
Internal Standard: Indium	% Recovery: 90	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	77.0		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S24-2F-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-47 101307-47.043 ICPMS1 AP
Internal Standard: Indium	% Recovery: 89	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	29.2		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S25-2F-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-49 101307-49.044 ICPMS1 AP
Internal Standard: Indium	: % Recovery: 89	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	43.5		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S26-2F-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-51 101307-51.045 ICPMS1 AP
Internal Standard: Indium	% Recovery: 79	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	52.0		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S27-2F-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-53 101307-53.046 ICPMS1 AP
Onits.	ing/kg (ppin)		
		Lower	Upper
Internal Standard	: % Recovery:	Limit:	Limit:
Indium	88	60	125
	Concentration		
Analyte:	mg/kg (ppm)		
Arsenic	47.2		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S28-2F-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-55 101307-55.047 ICPMS1 AP
Internal Standard Indium	: % Recovery: 89	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	11.4		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S29-2F-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-57 101307-57.048 ICPMS1 AP
Internal Standard: Indium	% Recovery: 87	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	37.7		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S30-2E-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-59 101307-59.050 ICPMS1 AP
Internal Standard: Indium	% Recovery: 89	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	27.5		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S31-2E-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-61 101307-61.051 ICPMS1 AP
Internal Standard: Indium	% Recovery: 89	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	33.7		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S32-2E-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-63 101307-63.052 ICPMS1 AP
Internal Standard: Indium	% Recovery: 89	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	23.6		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S33-2E-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-65 101307-65.036 ICPMS1 AP
Internal Standard: Indium	% Recovery: 88	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	46.3		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S34-2E-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-67 101307-67.053 ICPMS1 AP
Internal Standard: Indium	% Recovery: 88	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	41.7		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S35-2E-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-69 101307-69.054 ICPMS1 AP
Internal Standard Indium	% Recovery: 90	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	84.3		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S36-2E-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-71 101307-71.055 ICPMS1 AP
Internal Standard		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	28.4		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S37-2E-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-73 101307-73.056 ICPMS1 AP
Internal Standard: Indium	% Recovery: 89	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	23.7		
ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S38-2E-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-75 101307-75.057 ICPMS1 AP
Internal Standard		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	42.0		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S39-2E-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-77 101307-77.058 ICPMS1 AP
Internal Standard Indium	: % Recovery: 88	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	55.2		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S40-2E-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-79 101307-79.059 ICPMS1 AP
Internal Standard: Indium	% Recovery: 87	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	37.9		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S41-2D-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-81 101307-81.066 ICPMS1 AP
Internal Standard: Indium		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	117		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S42-2D-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-83 101307-83.067 ICPMS1 AP
Internal Standard: Indium	% Recovery: 87	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	20.6		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S43-2D-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-85 101307-85.063 ICPMS1 AP
Internal Standard: Indium	% Recovery: 90	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	29.5		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S44-2D-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-87 101307-87.068 ICPMS1 AP
Internal Standard Indium	: % Recovery: 89	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	33.8		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S45-2D-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-89 101307-89.069 ICPMS1 AP
Internal Standard: Indium	% Recovery: 88	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	33.7		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S46-2D-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-91 101307-91.071 ICPMS1 AP
Internal Standard Indium	: % Recovery: 88	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	23.4		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S47-2D-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-93 101307-93.072 ICPMS1 AP
Internal Standard: Indium	% Recovery: 86	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	31.0		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S48-2D-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-95 101307-95.073 ICPMS1 AP
Internal Standard: Indium		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	30.7		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S49-2D-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-97 101307-97.074 ICPMS1 AP
Internal Standard Indium	: % Recovery: 89	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	49.8		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S50-2D-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-99 101307-99.075 ICPMS1 AP
Internal Standard Indium	: % Recovery: 88	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	14.9		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S51-2B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-101 101307-101.076 ICPMS1 AP
Internal Standard: Indium	% Recovery: 91	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	63.6		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S52-2B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-103 101307-103.077 ICPMS1 AP
Internal Standard: Indium	% Recovery: 89	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	20.1		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S53-2B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-105 101307-105.078 ICPMS1 AP
Internal Standard: Indium	% Recovery: 89	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	25.2		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S54-2B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-107 101307-107.079 ICPMS1 AP
Internal Standard Indium		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	18.1		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S55-2B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-109 101307-109.081 ICPMS1 AP
Chitts.	mg/ng (ppm)		
Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	91	60	125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	38.8		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S56-2B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-111 101307-111.082 ICPMS1 AP
Internal Standard		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	43.2		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S57-2B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-113 101307-113.083 ICPMS1 AP
Onits.	ing/kg (ppin)		
		Lower	Upper
Internal Standard	: % Recovery:	Limit:	Limit:
Indium	90	60	125
	Concentration		
Analyte:	mg/kg (ppm)		
Arsenic	120		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S58-2B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-115 101307-115.084 ICPMS1 AP
Internal Standard: Indium	% Recovery: 87	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	61.0		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S59-2B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-117 101307-117.085 ICPMS1 AP
Internal Standard: Indium	% Recovery: 88	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	37.3		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S60-2B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-119 101307-119.086 ICPMS1 AP
Internal Standard Indium		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	253		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S61-2A-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-121 101307-121.041 ICPMS1 AP
Onits.	ing/kg (ppin)	1	
		Lower	Upper
Internal Standard	% Recovery:	Limit:	Limit:
Indium	93	60	125
	Concentration		
Analyte:	mg/kg (ppm)		
Arsenic	138		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S62-2A-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-123 101307-123.042 ICPMS1 AP
Internal Standard Indium	: % Recovery: 93	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	119		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S63-2A-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-125 101307-125.044 ICPMS1 AP
Internal Standard: Indium	% Recovery: 91	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	33.7		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S64-2A-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-127 101307-127.045 ICPMS1 AP
Internal Standard: Indium	% Recovery: 93	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	58.7		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S65-2A-6" 01/31/11 02/01/11 02/03/11 Soil	Client: Project: Lab ID: Data File: Instrument:	Environmental Management Services Highland 20, LLC-0393-01 101307-129 101307-129.046 ICPMS1 AP
Units:	mg/kg (ppm)	Operator:	AP
		Lower	Upper
Internal Standard	% Recovery:	Limit:	Limit:
Indium	93	60	125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	173		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S66-2A-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-131 101307-131.047 ICPMS1 AP
Chitts.	ing ing (ppin)	Lower	Upper
Internal Standard Indium	: % Recovery: 86	Limit: 60	Limit: 125
marum	00	00	125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	240		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S67-2A-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-133 101307-133.048 ICPMS1 AP
Internal Standard: Indium	% Recovery: 93	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	52.4		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S68-2A-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-135 101307-135.038 ICPMS1 AP
Internal Standard: Indium	% Recovery: 91	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	13.2		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix:	S69-2A-6" 01/31/11 02/01/11 02/03/11 Soil	Client: Project: Lab ID: Data File: Instrument:	Environmental Management Services Highland 20, LLC-0393-01 101307-137 101307-137.049 ICPMS1
Units:	mg/kg (ppm)	Operator:	AP
Internal Standard: Indium	% Recovery: 94	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	245		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S70-2A-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-139 101307-139.050 ICPMS1 AP
Internal Standard: Indium	% Recovery: 90	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	88.7		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S71-2C-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-141 101307-141.051 ICPMS1 AP
Internal Standard: Indium	% Recovery: 87	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	56.2		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S72-2C-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-143 101307-143.053 ICPMS1 AP
Internal Standard Indium	: % Recovery: 90	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	46.5		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S73-2C-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-145 101307-145.054 ICPMS1 AP
Internal Standard: Indium	% Recovery: 90	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	17.6		
ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S74-2C-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-147 101307-147.055 ICPMS1 AP
Internal Standard Indium	: % Recovery: 96	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	182		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S75-2C-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-149 101307-149.056 ICPMS1 AP
Internal Standard: Indium		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	53.2		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S76-2C-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-151 101307-151.057 ICPMS1 AP
Internal Standard Indium	: % Recovery: 90	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	94.0		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S77-2C-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-153 101307-153.058 ICPMS1 AP
Internal Standard Indium		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	58.4		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S78-2C-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-155 101307-155.059 ICPMS1 AP
Internal Standard Indium		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	179		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S79-2C-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-157 101307-157.060 ICPMS1 AP
Internal Standard: Indium	% Recovery: 90	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	50.0		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S80-2C-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-159 101307-159.061 ICPMS1 AP
Internal Standard: Indium		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	50.4		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S81-2G-6" 01/31/11 02/02/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-161 101307-161.077 ICPMS1 AP
Internal Standard: Indium	% Recovery: 92	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	77.5		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S82-2G-6" 01/31/11 02/02/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-163 101307-163.023 ICPMS1 AP
Internal Standard: Indium	% Recovery: 91	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	37.0		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S83-2G-6" 01/31/11 02/02/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-165 101307-165.024 ICPMS1 AP
Internal Standard: Indium	% Recovery: 95	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	28.7		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S84-2G-6" 01/31/11 02/02/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-167 101307-167.025 ICPMS1 AP
Internal Standard: Indium	% Recovery: 94	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	73.3		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S85-2G-6" 01/31/11 02/02/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-169 101307-169.026 ICPMS1 AP
Internal Standard: Indium	% Recovery: 90	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	47.0		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S86-2G-6" 01/31/11 02/02/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-171 101307-171.028 ICPMS1 AP
Internal Standard		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	134		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S87-2G-6" 01/31/11 02/02/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-173 101307-173.029 ICPMS1 AP
Onits.	ing/kg (ppin)		
		Lower	Upper
Internal Standard	: % Recovery:	Limit:	Limit:
Indium	96	60	125
	Concentration		
Analyte:	mg/kg (ppm)		
Arsenic	126		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S88-2G-6" 01/31/11 02/02/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-175 101307-175.030 ICPMS1 AP
Units.	ing/kg (ppin)		
		Lower	Upper
Internal Standard	: % Recovery:	Limit:	Limit:
Indium	94	60	125
	Concentration		
Analyte:	mg/kg (ppm)		
Arsenic	9.75		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S89-2G-6" 01/31/11 02/02/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-177 101307-177.031 ICPMS1 AP
Internal Standard Indium	% Recovery: 91	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	74.4		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix:	S90-2G-6" 01/31/11 02/02/11 02/03/11 Soil	Client: Project: Lab ID: Data File: Instrument:	Environmental Management Services Highland 20, LLC-0393-01 101307-179 101307-179.032 ICPMS1
Units:	mg/kg (ppm)	Operator:	AP
Internal Standard: Indium	% Recovery: 88	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	44.3		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed:	Method Blank Not Applicable 02/01/11 02/02/11	Client: Project: Lab ID: Data File:	Environmental Management Services Highland 20, LLC-0393-01 I1-69 mb I1-69 mb.008
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP
Internal Standard: Indium	% Recovery: 91	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	<1		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed:	Method Blank Not Applicable 02/01/11 02/02/11	Client: Project: Lab ID: Data File:	Environmental Management Services Highland 20, LLC-0393-01 I1-71 mb I1-71 mb.034
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP
Internal Standard: Indium	% Recovery: 83	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	<1		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted:	Method Blank Not Applicable 02/01/11	Client: Project: Lab ID:	Environmental Management Services Highland 20, LLC-0393-01 I1-72 mb
Date Analyzed:	02/02/11	Data File:	I1-72 mb.061
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP
Internal Standard: Indium	% Recovery: 88	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	<1		

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Blank Not Applicable 02/01/11 02/03/11 12:45:50 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 I1-73 mb I1-73 mb.036 ICPMS1 AP
Internal Standard: Indium		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		

Arsenic

<1

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Arsenic

Client ID:	Method Blank	Environment	al Management Services
Date Received:	Not Applicable	Project:	Highland 20, LLC-0393-01
Date Extracted:	02/02/11	Lab ID:	I1-75 mb
Date Analyzed:	02/03/11 10:47:51	Data File:	I1-75 mb.008
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP
		Lower	Upper
Internal Standard:	% Recovery:	Limit:	Limit:
Indium	95	60	125
	Concentration		
Analyte:	mg/kg (ppm)		

<1

100

ENVIRONMENTAL CHEMISTS

Date of Report: 02/07/11 Date Received: 01/31/11 Project: Highland 20, LLC-0393-01, F&BI 101307

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 101307-35 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	66.5	123 b	197 b	44-151	46 b

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	103	80-120

ENVIRONMENTAL CHEMISTS

Date of Report: 02/07/11 Date Received: 01/31/11 Project: Highland 20, LLC-0393-01, F&BI 101307

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 101307-65 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	46.3	103 b	147 b	44-151	35 b

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	101	80-120

ENVIRONMENTAL CHEMISTS

Date of Report: 02/07/11 Date Received: 01/31/11 Project: Highland 20, LLC-0393-01, F&BI 101307

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 101307-85 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	29.5	102 b	112 b	44-151	9 b

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	98	80-120

ENVIRONMENTAL CHEMISTS

Date of Report: 02/07/11 Date Received: 01/31/11 Project: Highland 20, LLC-0393-01, F&BI 101307

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 101307-135 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	13.2	107 b	131 b	44-151	20 b

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	101	80-120

ENVIRONMENTAL CHEMISTS

Date of Report: 02/07/11 Date Received: 01/31/11 Project: Highland 20, LLC-0393-01, F&BI 101307

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 101302-11 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	2.03	93 b	100 b	44-151	7 b

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	100	80-120

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

 $\ensuremath{\text{ip}}$ - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

101307	SAMPLERS (signature) Page # of																				
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519-1 B-6	[°] 37					-														9	Ś
519-1 B-12"	38						•			-										H	cvl
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520-1B-12	" 40			•	4	4	'							4							þld
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Send Report ToSteve S	pencer		-	SAI	MPLERS (si	gn <u>atur</u>	et k	Ŧ								Page # TURN	<u> </u>	_of_(<u>)</u> D TIME	יביב <u>י</u> ר
Company <u>Environment</u>		PROJECT NAME/NO. Highland 20, PO # LLC - 0393-01											Standard (2 Weeks)						
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City, State, ZIP <u>Tacoma</u>	REI	REMARKS											SAMPLE DISPOSAL Dispose after 30 days						
Phone #_(253) 921-7059	_ L_	sspencer@emsgroupllc.com											Return samples Will call with instructions						
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521-2F-12	42			Ĩ.													ĺ	Pla	
527-2 F-6	43																Ŕ	w	
522-2 F- 12"	44																6	Llor	
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	Relinquish Received b		·								s	amj	ples	rècei	ved a		<u>}</u>		_

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Send Report To <u>Steve S</u>	pencer				SAMPLI	ERS ((signal	ture)	V	7							<mark>}</mark> ┌─		age #	JAROUND TIME
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Phone # <u>(253) 921-7059</u>	[sspencer@emsgroupllc.com												Return samples Will call with instructions						
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526-2F-12"	52	<u>}</u>																		NOW
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528 - 2 F - 12"				†										$\uparrow\uparrow$						hold
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			sspencer@emsgroupllc.com												Return samples								
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531-2E-12"	62				1															ŀ	bld		
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535-27-6"	69																				Ron		
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City, State, ZIP <u>Tacoma</u> ,		sspencer@emsgroupllc.com											Dispose after 30 days Return samples								
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Send Report To <u>Steve Sp</u>	encer			SAMP	LERS (sign	ture	X	Ŧ					┓		age # _ URNA	ROUN	_ of _ A D TIME
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<u>542-20-6"</u>	83															Ŕ	UN
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593-20-6"	85															R	un
<u> 13-20-2"</u>	86															h	bla
$599 - 20 - 6^{11}$	87															R	\mathcal{M}
×44-20-12"	88		_													<u> </u>	64
595-20-6"	89															$\int d$	lun.
546-20-12"	90	\triangleleft		4							\mathbf{A}					, V	rold
Friedman & Bruya, Inc. 3012 16th Avenue West	Relinquish	SI N.	ATURE			RINT			<u>.</u>			COM		ľ		ATE	TIME
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Send Report To <u>Steve S</u>	pencer			SAMPL	ERS (signa	ture)	X	Ŧ								ge # JRNAROU	Of OC
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<u>556 - 20 - 6"</u>	99																Run
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Send Report To <u>Steve S</u>	pencer				SAMPL				X	Ť								ge # JRNAR	OUNE	of <u>P</u> TIME
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551-2B-12	h 102				1		ŗ							\prod					[re	
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59-2B-6"	107						-												R	\mathcal{M}
29-12 B-12	108																		h	old
<u>55-2B-6"</u>	109				<u>_</u>														R	UM
55-2B-R"	110				V		41						-	1					Na	bld
Friedman & Bruya, Inc. 2012 16th Avenue West	Relinqui		ATURE			<u></u>	A .	RINT				~ ·			COMF	PANY	Γ	DA		TIME
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Attachment D

Professional Qualifications



Environmental Management Services, LLC

Environmental Management Services (EMS) is an environmental contracting and consulting company addressing client's needs throughout the West Coast. Our serves industries include the real estate community, general contractors, property developers and local and state government. We understand the importance of blending a variety of expertise and experience in order to provide our clients the most effective leadership in addressing their specific project needs. Our professionals combine a high level of technical ability with a broad understanding of the overall regulatory compliance requirements.

As an environmental services and consulting company, EMS prides itself maintaining a broad understanding of the most current regulatory compliance requirements, local and state permitting requirements and maintaining contact with our region's environmental advocacy group's positions. EMS provides our clients the services they require by offering cost effective, non-biased, practical, solutions while maintaining positive relations with the regulatory community.

Our associates have completed projects including remedial investigation / feasibility studies (RI/FS), remediation design and management, facility regulatory compliance assessments, due diligence assessments, regulatory compliance training, underground storage tank compliance and hazardous materials management as well as many other environmental compliance related matters for clients throughout the west coast in all avenues of business. The varied background our associates possess compliments the diverse nature of our clientele, providing better understanding of our client's needs and ultimate goals for their projects.

The information in the following pages outlines our professional experience and capabilities in providing environmental management and consulting services. We appreciate your interest in EMS. At your convenience, please feel free to contact our office should you have any questions regarding this document or for more information on the services we provide.

Sincerely, Environmental Management Services

Stephen M. Spencer Principal



Stephen M. Spencer Principal

Mr. Spencer started his career in the environmental services and construction industry in 1987. During his career, he has worked on and successfully completed projects in many varied aspects of the environmental industry. Since 2002, as principal and senior project manager for Environmental Management Services, Mr. Spencer has successfully completed projects for clients throughout the west coast. His forte is in facility assessment, due diligence investigation, health & safety program development and remediation management.

Mr. Spencer has established positive working relationships with regulatory agencies throughout the west coast, affording his clients a superior level of confidence in his approach to their specific project.

His skills as a project manager frequently result in significant savings in both time and budget to his clients. He is proficient in report writing providing a clear, concise detail of project activities including supporting documents and figures. His client's have ranged from property owners and facility operators to the regulatory agencies themselves. His overall understanding of environmental compliance requirements provides a unique perspective on assessing potential and realized environmental risk and a creative understanding of remediation technique.

Robin P. Hamlet, L.G. / L.HG Sr. Environmental Scientist / Project Manager

- State of Washington Licensed Geologist/Hydrogeologist
- Ecology Licensed Washington State Site Assessor
- Ecology Licensed UST Decommissioning Supervisor
- AHERA Licensed Building Inspector
- OSHA Hazardous Materials & Emergency Response Certified

Robin P. Hamlet is a Licensed Geologist and Hydrogeologist in the State of Washington. Mr. Hamlet has 30 years experience in the geological sciences with over 25 years providing professional environmental consulting services. Mr. Hamlet has been involved with environmental investigations working on Environmental Protection Agency (EPA), United States Navy and Air Force environmental projects, as a project geologist and project manager. As a Senior Project Manager in the private sector, Mr. Hamlet has performed multiple Phase I and Phase II Environmental Site Assessments; including geophysical surveys, soil and groundwater studies and has managed the design and implementation of soil and groundwater remediation projects.



As a Licensed Washington State Underground Storage Tank (UST) Decommissioner and Licensed Site Assessor, Mr. Hamlet has managed multiple UST decommissioning and remediation projects, has prepared proposals, final reports, budgets, contracts with subcontractors, negotiated with prospective clients, and coordinated activities with regulatory agencies. Mr. Hamlet has been involved in training personnel in environmental field operations and Health & Safety programs, has working knowledge of state (NW states) and federal environmental regulations and the ASTM standards. As an AHERA Building Inspector, Mr. Hamlet has performed hazardous materials surveys, air monitoring projects as well as providing asbestos abatement projects.

Adam Harris, L.G. Sr. Environmental Scientist (Contract)

- Master of Science in Sedimentary Geology
- Licensed geologist in California and Washington
- Current OSHA 40 Hour HAZWOPER
- Certified Oracle Database 9 Administrator
- Certified MS Access 2007 Administrator
- Certified ARC/INFO 9.1 Professional

Mr. Harris has a Batchers of Science degree from the University of California (UC), Davis in Environmental & Recourses Sciences, Specializing in Vadose zone and aqueous geochemistry, hydrology, and environmental management. Mr. Harris graduated with Honors and a Citation for excellence. Mr. Harris continued his education, receiving his Masters in Geology from the University of California, Davis. His thesis Topic was: Environmental geochemistry and paleomagnetism of sediment cores obtained from Ocean Drilling Program Leg 169S, Saanich Inlet, British Columbia.

Engineering Geologist, Leaking Underground Storage Tank Cleanup Program (2001 to 2005)

- Mr. Harris, as a California State Water Recourses Board site manager, implemented state and federal regulations for LUST program. He provided regulatory oversight, reviewed and commented on hydrogeologic reports, plans and findings submitted by other regulated parties for LUST surface spill sites, and surface mines.
- Mr. Harris conducted site investigations, developed site conceptual models, model development, calibration and validation. Further, he reviewed petitions appealing technical decisions of local and regional agencies, Mediated and resolved conflicts between local regulatory agencies and the regulated community.



- Mr. Harris has authored professional opinions, position papers, technical reports, legal orders, notices, presentations and letters for wide stakeholder distribution. Investigated and reported on emerging contaminant fate and transport pathways and collaborated on development and management of statewide online site reporting database.
- Provided technical oversight and guidance to local UST programs, building local program knowledge and ensuring statewide program consistency. Conducted oversight of UST inspections for consistency in program implementation. Introduced legislative concepts resulting in promulgation of new UST regulations.

Geologic Technician - 1999 to 2000

• Mr. Harris participated in international scientific research expedition. Planned transport, set up and operation of environmental analysis laboratory in Antarctica. Investigated and analyzed high-resolution environmental records. Reported research results for publication.

James E. Corcoran, P.E. Sr. Project Manager / Sr. Project Engineer (Contract)

- Bachelor of Science Civil Engineering Oregon State University 1991
- Washington State Registered Professional Engineer 1999
- OSHA Hazardous Materials & Emergency Response Certified

Mr. Corcoran has 17 years of experience in Civil Engineering and Project Management. For the past three years, Mr. Corcoran has been the principal of a consulting business that provides civil engineering consulting and site development services including:

- Critical Areas Review
- FEMA floodplain study
- State Environmental Policy Act (SEPA) checklist
- Stormwater Pollution Prevention Plans (SWPPP)
- Spill Prevention, Control, and Countermeasure (SPCC) plans
- Temporary Erosion/Sediment Control (TESC) plans
- Permanent soil stabilization and precise grading plans
- Surface water collection, detention, retention, treatment, and infiltration design
- Construction coordination with utility purveyors
- Site inspection to verify conformance with design intent and contract documents

Mr. Corcoran has provided civil engineering consulting and stormwater management on residential, commercial, and industrial development projects in multiple Washington state jurisdictions including the City of Tacoma, the City of Lacey, the City of Kent, Pierce County, and King County. Specific projects that Mr. Corcoran provided engineering service include:



- Preparing a TESC plan, SPCC plan, and surface water drainage collection and treatment system for a proposed petroleum products recycling process facility which discharges to a municipal storm sewer located in the Port of Tacoma
- Preparing a SEPA checklist, TESC plan, SPCC plan and surface water drainage collection and treatment system for a proposed privately owned fueling facility, which drains to an environmentally sensitive wetland in the City of Kent.
- Preparing a TESC plan, and permanent surface water drainage retention and treatment system, which infiltrates to site soils underlying a proposed commercial retail center in Pierce County.
- Preparing a TESC plan and permanent surface water drainage collection and treatment system which discharges to a municipal storm sewer in the City of Tacoma.
- Preparing a TESC plan and permanent surface water drainage collection, detention and treatment system for a proposed supermarket and commercial retail center located on the Key Peninsula.

Collette Foley, B.S. Geology Environmental Scientist / Geologist

- Ecology Licensed Site Assessor
- Ecology Licensed UST Decommissioning Supervisor
- AHERA Licensed Building Inspector
- OSHA Compliance Supervisor
- OSHA Hazardous Materials & Emergency Response Certified

Ms. Foley has been conducting Phase I and II Environmental Site Assessments of commercial, industrial, multi- and single-family residential properties throughout western Washington since 2004. Ms. Foley performs a variety of activities associated with completing due diligence investigations including, but not limited to current and historical site research, regulatory agency file reviews, and subsurface investigations including drilling soil borings and installing monitoring wells to determine the presence and outcome of contamination in soil and groundwater.

Additionally, Ms. Foley completes asbestos "*Good Faith*" surveys prior to demolition or renovation of buildings; conducts project oversight for UST removals; and provides extensive environmental consulting as requested. Ms. Foley received her Bachelors degree in Geology and Environmental Science in 2003 from Pacific Lutheran University and has over two years experience as a field geologist / hydrogeologist performing regional hydrogeologic characterization and production well drilling.



Kevin Foley, B.S. Environmental Science, AICP Sr. Environmental Planner

- AICP Certified Planners
- Washington State Commercial Real Estate Agent

Mr. Foley currently serves as EMS's main point of contact to assist in the resolution of land use, zoning and permitting issues at the local, state and federal level. He has extensive experience in helping prepare and process development proposals for vacant property and the expansion or renovation of developed sites. He also coordinates certain baseline/investigative work by coordinating land surveys needs, sensitive area analysis and the completion of civil design plans for roads, water, traffic and storm water requirements.

Gina Mulderig, B.S. Chemistry Environmental Scientist / Chemist

- Ecology Licensed Site Assessor
- Ecology Licensed UST Decommissioning Supervisor
- AHERA Licensed Building Inspector
- Certified Erosion and Sediment Control Lead
- OSHA Hazardous Materials & Emergency Response Certified

Ms. Mulderig received her Bachelors degree in Chemistry from the University of Puget Sound in 1979. Ms. Mulderig has been working in the environmental regulatory compliance field since 1985, starting her career with a position as an environmental analyst for Weyerhaeuser Company. Her fifteen year position at Weyerhaeuser required a thorough knowledge of environmental regulatory compliance, focusing on groundwater monitoring, waste water management, storm water management and facility compliance audits.

Ms. Mulderig worked with two local environmental services / consulting firms from 2000 until 2007, greatly increasing her overall regulatory compliance, hydrogeology and environmental engineering knowledge and experience.

Her position with EMS as a Project Manager / Environmental Scientist provides a vast knowledge base to EMS clients in multiple areas of regulatory compliance and environmental science.



Kaitlyn Allegretti, B.S. Geology Environmental Scientist / Technician

- Ecology Licensed UST Decommissioning Supervisor
- Ecology Licensed Site Assessor
- AHERA Licensed Building Inspector
- OSHA Hazardous Materials & Emergency Response Certified

Ms. Allegretti serves as a site manager and field technical for EMS. Ms. Allegretti graduated from the University of Dayton (2005) with a Bachelor's degree in Geology. Ms. Allegretti's primary responsibilities are field work including monitoring well sampling, underground storage tank closure and decommissioning and asbestos inspections. Ms. Allegretti was licensed as an AHERA building inspector and UST Decommissioner within the first 60 days of her employment.

During her two years with EMS, Ms. Allegretti has completed in excess of fifty Phase I Environmental Site Assessments and in excess of 20 commercial underground storage tank closure projects.

James D. Coppernoll, L.G. / L.HG (Sub-Consultant) Licensed Geologist / Hydrogeologist

- Washington State Licensed Geologist and Hydrogeologist
- Ecology Licensed Site Assessor

James D. Coppernoll is a Washington State licensed Geologist and Hydrogeologist with thirteen years of experience practicing environmental geology in the Northwest. During his career, Mr. Coppernoll worked with clients ranging from major oil companies and national corporations to local businesses to identify, manage, and resolve their environmental problems and helped local agencies, businesses, and individuals with their environmental, geological, and regulatory issues.

Mr. Coppernoll has conducted various environmental and geological investigations ranging from numerous Phase I Environmental Assessments to contaminated site investigations and remedial planning and implementation as well as land use and development studies in Washington, Oregon, Idaho, Montana, and Alaska, and has frequently acted as a regulatory liaison and client representative in third-party negotiations.

Mr. Coppernoll managed all phases of assessment and remediation at dozens of retail and bulk fuel facilities for major oil companies in the Northwest including: excavation and disposal of contaminated soil; free product recovery; feasibility studies; and design, installation, and



operation/maintenance of in-situ soil and ground water remediation systems. Mr. Coppernoll managed many of these sites from initial assessment through remediation and closure with the state.

Mr. Coppernoll has conducted geological investigations and assessments for diverse property development projects in the northwest including landfills, hot springs, and residential properties. The purpose of these assessments and investigations was to provide professional and reliable information for use in developing sensitive areas properties.

Professional References

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Environmental Management Services, LLC providing practical environmental compliance solutions

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Public Agency References

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Arsenic Contaminated Soil Corrective Action Plan (Revised)

1400 Highland Parkway Tacoma, Washington

Original: February 16, 2012 Revised: March 26, 2012

Completed For:

Highlands Twenty, LLC Joe Foss, Managing Partner 1400 Highland Parkway Tacoma, Washington

Matthew P. Loxterman Sr. Environmental Scientist

Stephen M. Spencer Principal Environmental Scientist



Prepared By:

ECI | Environmental Consulting. PO Box 153 Tacoma, Washington 98333 (253) 238-9270

ECI Project No.: 0393-02

1.0	Introduction	
1.1	Objectives	3
1.2	Background	3
1.2	Site Geology	4
2.0	Previous Investigations	.4
2.1	Regulatory Compliance	4
3.0	Site Remediation	4
3.1	Sample Collection & Analysis	5
3.2	Contaminated Soil Stabilization – Golf Course Landscaping	5
3.3	Tee Box / Teeing Ground Construction	5
3.2	Health & Safety	
4.0	Site Closure Reporting – Voluntary Cleanup Program	6
5.0	Conclusion	.6

List of Attachments

Attachment A: Project Figures

- Figure 1: Site Location Map
- Figure 2: Site Topographic Map
- Figure 3: Site Map Area
- Figure 4: Site Map Lot 2A
- Figure 5: Site Map Lot 2B
- Figure 6: Site Map Lot 2C
- Figure 7: Site Map Lot 2D
- Figure 8: Tee Box / Teeing Ground General Grading Plan

Attachment B: Previous Environmental Reports

- February 2011 Arsenic Investigation
- September 2011 Arsenic Investigation

1.0 Introduction

EcoCon, Inc. (ECI), at the request of Highland Twenty, LLC, has completed this Corrective Action Plan (CAP) following the identification of arsenic impacted soil on nine prospective building sites in Tacoma, Washington. These sites are located at 1400 Highland Parkway, Tacoma, Washington on Pierce County parcels 4467100700, 4467100660, 4467121270 and 4467121280. ECI understands that the current development plan has been changed to include only four of the original nine lots. The new development plan will include the removal of arsenic impacted soil from four future residential building sites located on two of parcels 4467121270 (lots 2A and 2B) and 4467121280 (lots 2D and 2E), use the impacted soil for improvements to the parent parcels, complete the re-plat separating the newly remediated lots from their original "parent" parcels and apply for a No Further Action Determination (NFA) for the newly remediated and platted lots from the Washington State Department of Ecology (Ecology).

1.1 Objectives

This CAP details the remediation activities selected to bring the four selected site(s) into general compliance with Washington State Model Toxics Control Act (MTCA) Cleanup Regulations (WAC 173-340) and obtain a "No Further Action" (NFA) determination from the Department of Ecology (Ecology).

The objective of this CAP is to evaluate and describe the remedial techniques selected to clean up contaminated site soils impacted by offsite historic actives at the Asarco Smelter located in Ruston, Washington.

1.2 Background

According to the Washington Department of Ecology (Ecology), the Site is located within the Tacoma Asarco Smelter Plume (Smelter Plume)¹. The City of Tacoma has required that the subject Site(s) be assessed for arsenic and lead contamination related to the Smelter Plume. Ecology provides sampling guidelines that stipulate a minimum of ten (10) soil samples be collected per acre or building site at six inch increments.

The Site was historically naturally forested then developed into an 18-hole golf course in the 1930's. Using existing soil and imported soil, the golf course was landscaped. The golf course grounds have been routinely re-landscaped over the past 80 years, gradually reducing the original 18-holes to 9-holes and the construction of a residential community surrounding the golf course. The natural topography of the golf course and adjacent areas consists of a gently rolling landscape having a gross general downward slope to the west. With development and redevelopment of the area some of the rolling

¹ http://www.ecy.wa.gov/programs/tcp/sites/dirt_alert/studies_and_maps/sources.html

topography has been smoothed and some accentuated with the addition of roads, building sites, and fairways.

1.2 Site Geology

Based on test pit excavations completed during a geotechnical survey (Allen L. Hart Engineering Geologist – February 2011), below a layer of sod/topsoil, in non fill areas the site is generally underlain by approximately one to three feet of brown to tan, loose to medium dense, silty sand having a variable gravel content, which in turn is underlain by a tan-to gray, medium dense to very dense, silty sand with a varying gravel content (glacial till, Alderwood Group agricultural soils².)

2.0 Previous Investigations

Initial sampling completed in February 2011 identified Arsenic at concentration exceeding the 20 mg/kg MTCA-A CUL at 95% of the sample locations encompassing each of the original nine building sites extending from the surface to 6 inches bgs (Table 1 – Attached). A second sampling event conducted on Lot 2A (one of the original 9 lots) on September 9, 2011 included the collection of ten soil samples at 18 to 24 inches bgs. Of the 10 sample locations, three were reported exceeding the MTCA-A Arsenic CUL of 20 mg/kg. Total lead was analyzed on each of the three samples reported containing arsenic exceeding the applicable CUL. Total lead concentrations were reported below the 250 mg/kg MTCA-A CUL.

2.1 Regulatory Compliance

Regulatory compliance for this project is provided by the Washington State Department of Ecology (Ecology), Washington Administrative Code (WAC) 173-340, the Model Toxic Control Act (MTCA). Impacted soil investigations and remedial actions must meet the substantive requirements as specified in MTCA. The target point of compliance is meeting the Method A Soil Cleanup Levels for Unrestricted Land Uses – WAC 173-340-900 - Table 740-1. Specifically, the cleanup level for total arsenic (20 mg/kg) and total lead (250 mg/kg).

3.0 Site Remediation

Using excavation equipment the top 12 inches of soil will be excavated and transferred to a receiving area located approximately 200 feet away from the excavation area (Figure 2). Each lot is expected to contain 200 to 300 cubic yards of impacted soil. After the soil transfer, the receiving area will be landscaped into a tee box³ or other golf course features (see "Contaminated Soil Stabilization - Tee Box & Landscaping" - below). Six millimeter plastic will be used to cover the soil until tee box / landscape construction is completed.

² http://www.dnr.wa.gov/ResearchScience/Topics/GeologyofWashington/Pages/Iowland.aspx

³ The "tee box" is just another term for teeing ground. The teeing ground is the starting point on each hole of a golf course. It's the area covered by the space in-between two tee markers and two-club-lengths back from the tee markers.

Following the removal of the initial 12 inches of soil, samples will be collected at 10 select locations and analyzed for arsenic and lead. Sample results will be expedited to assist in any additional excavation beyond 12 inches bgs. This process will be repeated every 12 inches until sample results are reported below applicable CULs. Based on previous sampling events (September 2011) and subsurface geology, specifically glacial till (till) formations identified in the 2011 geotechnical survey (Allen L. Hart Engineering – 2011) impacted soil is not expected to extend below 36 inches bgs.

3.1 Sample Collection & Analysis

Soil sample locations following the initial excavation event will be placed in general proximity to the original sample locations as shown on Figure 4-7). Ten samples will be collected initially following excavation activities. Soil sample analytical results will dictate additional excavation and sampling requirements.

Soil samples will be collected following each 12 inch excavation activity. Each sample will be collected by a properly trained environmental professional using industry standard sampling techniques. At each of the ten sample locations, a discrete sample will be collected extending approximately 6 inches below existing grade using properly decontaminated sampling equipment and donning disposable personal protective equipment (e.g. nitrile gloves, eye protection). One new 4-ounce laboratory provided sample jar with teflon lined lid will be filled, assigned a unique identification number and stored in a climate controlled container maintained at 4° Celsius. Following sample collection, the samples will be delivered to a properly accredited laboratory under industry standard Chain of Custody. Each sample will be analyzed for arsenic and lead by EPA Method 200.8.

3.2 Contaminated Soil Stabilization – Golf Course Landscaping

Soil transported from each of the remediation sites will be stockpiled / landscaped to allow for golf features construction following transfer activites. The landscaped surface (soil surface) will be graded and covered with plastic daily during import and landscape activites. Stormwater best management practices will be implemented as necessary, and as described in the City of Tacoma approved temporary erosion and sediment control (TESC) plan. Final grade will be landscaped and incorporated into existing golf course features and seeded per golf course specifications.

3.3 Tee Box / Teeing Ground Construction

Final disposition of displaced arsenic impacted soil will be used to construct four new Teeing Grounds (Tee Box's). Each box will be approximately 100 to 150 feet in length and 34 to 50 feet wide. The Tee Box elevation will slope gradually (3 to 1) from the existing grade to the final grade expected to be 2.5 to 4 feet above the existing grade (Figure 8). The imported arsenic impacted soil will be graded as specified and seeded. New top soil and mulch will be used as necessary. As the receiving area where the Tee Box is to be constructed is also impacted with arsenic, further capping features are deemed excessive.

3.2 Health & Safety

A site specific health and safety plan will be completed addressing hazards associated with known contaminates, proposed excavation activities and outlining working conditions and worker exposure.

All site workers and inspectors conducting compliance inspections must have the following minimum training:

- 1. 40 hour Hazardous Waste Sites training as required by OSHA or
- 2. Certification showing completion of the annual Refresher for Hazardous Waste sites (8 hour), if applicable.

4.0 Site Closure Reporting – Voluntary Cleanup Program

Following excavation and confirmation sampling activities a report will be prepared detailing remediation activities, sampling activities and analytical results.

Each of the four sites will be entered separately into the Washington State Voluntary Cleanup Program (VCP) with the intent to receive a No Further Action (NFA) determination. Collaboration with Ecology both through the use of this work plan and continued communication, prior to, during and following corrective action activities is expected to meet all requirements outlined within the Washington Administrative Code (WAC) 173-340: Model Toxic Control Act (MTCA).

5.0 Conclusion

The purpose of this work plan is to provide corrective action guidelines during construction activities. As with all projects, the more information gathered in the planning stages, the less possibility of plan deviation or need for contingencies. As identified in the previous investigations, the top six inches of soil is impacted with arsenic exceeding the MTCA-A cleanup level of 20 mg/kg. What is not known is the vertical extent (depth) of impacted soil. Sample results from the September 2011 sampling event identified arsenic at 35% of sample locations at 18 to 24 inches bgs. Glacial till or "hard pan" was identified during the 2011 Geotechnical Assessment (Hart - 2011) at depths ranging from 12 to 36 inches bgs throughout the site(s). Total excavation depth is not expected to exceed 24 inches bgs except at a minimal number of locations on each Lot.

Specific activities with regard to the excavation and management of impacted soil and the installation of the final landscape will vary, however the intent remains constant, to remove impacted soil exceeding applicable cleanup levels, and apply for a No Further Action determination on each of the four newly subdivided lots.

Following construction, a summary report detailing the specific corrective action will be completed and submitted to Ecology, with a request for a No Further Action determination.

Attachment A

Project Figures

Figure 1: Site Location Map Figure 2: Site Topographic Map Figure 3: Site Map - Area Figure 4: Site Map – Lot 2A Figure 5: Site Map – Lot 2B Figure 6: Site Map – Lot 2C Figure 7: Site Map – Lot 2D



	Site Location Map 1400 Highlands Parkway North Tacoma, Washington	Date: January 17, 2012 Completed By: M. Kennendy Reviewed By.: S.Spencer Version: ECI-002 Project No.: 0393-03 Sheet 01 of 01
Not To Scale		ECI environmental consulting



Site Topographic Map 1400 Highlands Parkway North Tacoma, Washington

Not To Scale

Date:	January 17, 2012	Figure No.:
Completed By	: M. Kennendy	
Reviewed By .:	S.Spencer	
Version:	ECI-002	
Project No.:	0393-03	Sheet 01 of 01
		Sheet 01 01 01
ECI environment		al consulting



Tacoma, Washington

Not To Scale

environmental consulting







Lot 2B 1400 Highlands Parkway North Tacoma, Washington	Date: January 17, 2012 Completed By: M. Kennendy Reviewed By:: S.Spencer Version: ECI-002 Project No.: 0393-03 Figure No.: 0395-03 Sheet 01 of 01
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Attachment B

Previous Environmental Reports

February 2011 Arsenic Investigation September 2011 Arsenic Investigation





February 11, 2011

Highlands Twenty, LLC C/o Kevin Foley Baseline Engineering 1910 64th Avenue Fircrest, WA 98466

Re: Surface Soil Investigation 1400 Highland Parkway Tacoma, Washington

Dear Mr. Foley:

Environmental Management Services, LLC (EMS), at the request of Highland Twenty, LLC, completed a focused, surface soil environmental investigation. This investigation was conducted on nine proposed residential building sites located on portions of Pierce County Parcels 4467100210, 4467100660, 4467121280, 4467121270 located in Tacoma Washington (Subject Properties – Figures 1-12).

According to the Washington Department of Ecology (Ecology), the Site is located within the Tacoma Asarco Smelter Plume (Smelter Plume)¹. The City of Tacoma has required that, if the properties are to be developed, the Subject Properties will need to be assessed for surface arsenic contamination related to the Smelter Plume. Ecology provides sampling guidelines that stipulate a minimum of ten (10) soil samples be collected per acre at six inch increments starting at the surface elevation.

The goal of this project was to comply with the City of Tacoma and Ecology surface soil sampling requirements. The arsenic sampling methodology includes the collection of soil samples at two elevations (0-6" and 6-12") from ten (10) sample points on each of the nine properties.

Soil Sampling Activities

EMS completed sampling activities at the Site on January 30 and 31, 2011. Ten sample locations were randomly selected on each of the nine proposed building sites (Figures 4-12). The Washington State administrative code (WAC) 173-340 (Model Toxic Control Act) Method A

¹ http://www.ecy.wa.gov/programs/tcp/sites/dirt_alert/studies_and_maps/sources.html

Environmental Management Services, LLC | an emsgroup company Phone: (253) 238-9270 | Fax: (253) 369-6228 | ems@emsgroupllc.com

(MTCA-A) Cleanup Levels for Unrestricted Land Use for arsenic in soil is 20 milligram per kilogram (mg/kg). Of the ninety (90) 0-6" sample locations, eighty three (83) were reported exceeding the MTCA-A cleanup level of 20 mg/kg. The remaining seven (7) samples were reported below the MTCA-A cleanup level. Provided in Attachment A are figures 4-12, the project sample location maps identifying each of the sample locations.

EMS collected 180 discrete soil samples, 20 samples from each of the nine proposed building locations. Ten (10) samples from zero to six inches below ground surface (bgs) and 10 from 6 to 12 inches bgs. Each discrete soil sample was collected by a properly trained sampling technician using appropriately decontaminated sampling equipment.

Each soil sample was placed into new laboratory provided sampling containers and labeled using a unique sample identification number. Samples were delivered under industry standard chain of custody to Freidman & Bruya, Inc., an Ecology accredited laboratory for chemical analysis.

Laboratory Analysis

The soil samples collected from the depth of 0-6" were analyzed for Total Arsenic (As) by Environmental Protection Agency (EPA) Method 6020 (Attachment C – Laboratory Results). Seven soil samples, S20-1B, S28-2F, S50-2D, S54-2B, S68-2A, S73-2C and S88-2G were reported below the 20 mg/kg cleanup level.

The remaining 83 samples were reported exceeding the 20 mg/kg cleanup level. Concentration ranged from 20.1 mg/kg to 245 mg/kg. (Attachment B -Project Tables - Table 1 - Soil Sample Results - Total Arsenic).

Summary

Based on soil sample analysis, soil impacted with arsenic exceeding the MTCA-A cleanup limit of 20 mg/kg was identified on each of the nine proposed building sites. Further assessment to delineate the vertical and horizontal extent of impacted soil may be necessary to properly ascertain remediation or mitigation costs.

In order to develop the sites, the arsenic impacted soil will need to be addressed. Remediation or mitigation of the impacted soil can be incorporated in to the development of the property. However, an approved work plan addressing the proposed corrective action should be competed prior to construction to eliminate construction delays.

Environmental Management Services, LLC | an emsgroup company Phone: (253) 238-9270 | Fax: (253) 369-6228 | ems@emsgroupllc.com

EMS appreciates the opportunity to provide environmental services on this project. Should you have any questions, please contact our office at 253-921-7059.

Environmental Management Services, LLC

Stephen Spencer Principal

Encl:

Attachment A – Project Figures

- Figure 1 Site Location Map
- Figure 2 Site Topographic Map
- Figure 3 Sample Location Map

Attachment B – Project Tables

- Table 1 Soil Sample Results Total Arsenic
- MTCA-A Unrestricted Cleanup Levels for Unrestricted Land Use

Attachment C - Laboratory Results

Sample Analytical Results

• Analytical Results & Chain of Custody

Attachment D – Professional Qualifications

Page 3

Attachment A

Project Figures

Figure 1 - Site Location Map Figure 2 - Site Topographic Map Figure 3 - Sample Location Map





Site Location Map
1400 Highlands Parkway North
Tacoma, WashingtonDate:
Completed:
Checked By:
EMS Project No:February 10, 2011
OutlingFigure No.Date:
Completed:
EMS Project No:Figure No.01









Site Map 1400 Highlands Parkway North Tacoma, Washington Date:February 10, 2011Completed:K. SpencerChecked By:S. SpencerEMS Project No:0393-01

ry 10, 2011 ncer ncer 3-01











Sample Location Map Lot 2B 1400 Highlands Parkway North Tacoma, Washington

K. Spencer

S. Spencer

Lot 2B

Completed:

Checked By:

EMS Project No: 0393-01











Attachment B

Project Tables

Table 1 - Arsenic Sample ResultsMTCA-A Unrestricted Cleanup Levels for Unrestricted Land Use

Environmental

www.emsgrouplic.



				EPA 6020
Sample Number	Sample Location	Sample Depth	Sample Date	Total Matala Araania (Aa)
				Total Metals - Arsenic (As) mg/kg
		G LOT 1A		ingrig
S1-A1-6"	LOT1A	0-6"	1/30/2011	<u>79.1</u>
S2-A1-6"	LOT1A	0-6"	1/30/2011	<u>92.7</u>
S3-A1-6"	LOT1A	0-6"	1/30/2011	<u>104.0</u>
S4-A1-6"	LOT1A	0-6"	1/30/2011	<u>190.0</u>
S5-A1-6"	LOT1A	0-6"	1/30/2011	<u>29.3</u>
S6-A1-6"	LOT1A	0-6"	1/30/2011	<u>83.8</u>
S7-A1-6"	LOT1A	0-6"	1/30/2011	<u>253.0</u>
S8-A1-6"	LOT1A	0-6"	1/30/2011	<u>42.9</u>
S9-A1-6"	LOT1A	0-6"	1/30/2011	<u>157.0</u>
S10-A1-6"	LOT1A	0-6"	1/30/2011	<u>66.5</u>
BUILDING LOT 1B				
S11-1B-6"	LOT1B	0-6"	1/30/2011	<u>43.2</u>
S12-1B-6"	LOT1B	0-6"	1/30/2011	<u>102.0</u>
S13-1B-6"	LOT1B	0-6"	1/30/2011	<u>52.7</u>
S14-1B-6"	LOT1B	0-6"	1/30/2011	<u>53.6</u>
S15-1B-6"	LOT1B	0-6"	1/30/2011	<u>55.5</u>
S16-1B-6"	LOT1B	0-6"	1/30/2011	<u>231.0</u>
S17-1B-6"	LOT1B	0-6"	1/30/2011	<u>60.5</u>
S18-1B-6"	LOT1B	0-6"	1/30/2011	<u>66.5</u>
S19-1B-6"	LOT1B	0-6"	1/30/2011	<u>59.5</u>
S20-1B-6"	LOT1B	0-6"	1/30/2011	8.5



				EPA 6020
Sample Number	Sample Location	Sample Depth	Sample Date	Total Metals - Arsenic (As)
				mg/kg
	BUILDING	LOT 2F		
S21-2F-6"	LOT2F	0-6"	1/30/2011	<u>62.1</u>
S22-2F-6"	LOT2F	0-6"	1/30/2011	<u>59.7</u>
S23-2F-6"	LOT2F	0-6"	1/30/2011	<u>77.0</u>
S24-2F-6"	LOT2F	0-6"	1/30/2011	<u>29.2</u>
S25-2F-6"	LOT2F	0-6"	1/30/2011	<u>43.5</u>
S26-2F-6"	LOT2F	0-6"	1/30/2011	<u>52.0</u>
S27-2F-6"	LOT2F	0-6"	1/30/2011	<u>47.2</u>
S28-2F-6"	LOT2F	0-6"	1/30/2011	11.4
S29-2F-6"	LOT2F	0-6"	1/30/2011	<u>37.7</u>
S30-2F-6"	LOT2F	0-6"	1/30/2011	<u>27.5</u>
BUILDING LOT 2E				
S31-2E-6"	LOT2E	0-6"	1/30/2011	<u>33.7</u>
S32-2E-6"	LOT2E	0-6"	1/30/2011	<u>23.6</u>
S33-2E-6"	LOT2E	0-6"	1/30/2011	<u>46.3</u>
S34-2E-6"	LOT2E	0-6"	1/30/2011	<u>41.7</u>
S35-2E-6"	LOT2E	0-6"	1/30/2011	<u>84.3</u>
S36-2E-6"	LOT2E	0-6"	1/30/2011	<u>28.4</u>
S37-2E-6"	LOT2E	0-6"	1/30/2011	<u>23.7</u>
S38-2E-6"	LOT2E	0-6"	1/30/2011	<u>42.0</u>
S39-2E-6"	LOT2E	0-6"	1/30/2011	<u>55.2</u>
S40-2E-6"	LOT2E	0-6"	1/30/2011	<u>37.9</u>



				EPA 6020
Sample Number	Sample Location	Sample Depth	Sample Date	Total Metals - Arsenic (As)
				mg/kg
	BUILDING	LOT 2D		
S41-2D-6"	LOT2D	0-6"	1/30/2011	<u>117.0</u>
S42-2D-6"	LOT2D	0-6"	1/30/2011	<u>20.6</u>
S43-2D-6"	LOT2D	0-6"	1/30/2011	<u>29.5</u>
S44-2D-6"	LOT2D	0-6"	1/30/2011	<u>33.8</u>
S45-2D-6"	LOT2D	0-6"	1/30/2011	<u>33.7</u>
S46-2D-6"	LOT2D	0-6"	1/30/2011	<u>23.4</u>
S47-2D-6"	LOT2D	0-6"	1/30/2011	<u>31.0</u>
S48-2D-6"	LOT2D	0-6"	1/30/2011	<u>30.7</u>
S49-2D-6"	LOT2D	0-6"	1/30/2011	<u>49.8</u>
S50-2D-6"	LOT2D	0-6"	1/30/2011	14.9
BUILDING LOT 2B				
S51-2B-6"	LOT2B	0-6"	1/30/2011	<u>63.6</u>
S52-2B-6"	LOT2B	0-6"	1/30/2011	<u>20.1</u>
S53-2B-6"	LOT2B	0-6"	1/30/2011	<u>25.2</u>
S54-2B-6"	LOT2B	0-6"	1/30/2011	18.1
S55-2B-6"	LOT2B	0-6"	1/30/2011	<u>38.8</u>
S56-2B-6"	LOT2B	0-6"	1/30/2011	<u>43.2</u>
S57-2B-6"	LOT2B	0-6"	1/30/2011	<u>120.0</u>
S58-2B-6"	LOT2B	0-6"	1/30/2011	<u>61.0</u>
\$59-2B-6"	LOT2B	0-6"	1/30/2011	<u>37.3</u>
S60-2B-6"	LOT2B	0-6"	1/30/2011	<u>253.0</u>



				EPA 6020
Sample Number	Sample Location	Sample Depth	Sample Date	Total Metals - Arsenic (As)
				mg/kg
	BUILDIN	G LOT 2A		
S61-2A-6"	LOT2A	0-6"	1/30/2011	<u>138.0</u>
S62-2A-6"	LOT2A	0-6"	1/30/2011	<u>119.0</u>
S63-2A-6"	LOT2A	0-6"	1/30/2011	33.7
S64-2A-6"	LOT2A	0-6"	1/30/2011	58.7
S65-2A-6"	LOT2A	0-6"	1/30/2011	<u>173.0</u>
S66-2A-6"	LOT2A	0-6"	1/30/2011	240.0
S67-2A-6"	LOT2A	0-6"	1/30/2011	52.4
S68-2A-6"	LOT2A	0-6"	1/30/2011	13.2
	LOT2A	0-6"	1/30/2011	245.0
	LOT2A	0-6"	1/30/2011	88.7
BUILDING LOT 2C				
S71-2C-6"	LOT2C	0-6"	1/30/2011	56.2
S72-2C-6"	LOT2C	0-6"	1/30/2011	46.5
S73-2C-6"	LOT2C	0-6"	1/30/2011	17.6
S74-2C-6"	LOT2C	0-6"	1/30/2011	<u>182.0</u>
S75-2C-6"	LOT2C	0-6"	1/30/2011	53.2
S76-2C-6"	LOT2C	0-6"	1/30/2011	<u>94.0</u>
S77-2C-6"	LOT2C	0-6"	1/30/2011	<u>58.4</u>
S78-2C-6"	LOT2C	0-6"	1/30/2011	<u>179.0</u>
S79-2C-6"	LOT2C	0-6"	1/30/2011	<u>50.0</u>
S80-2C-6"	LOT2C	0-6"	1/30/2011	<u>50.4</u>



February 11, 2011

				EPA 6020
Sample Number	Sample Location	Sample Depth	Sample Date	Total Metals - Arsenic (As) mg/kg
	BUILDING	LOT 2G		
S81-2G-6"	LOT2G	0-6"	1/30/2011	<u>77.5</u>
S82-2G-6"	LOT2G	0-6"	1/30/2011	<u>37.0</u>
S83-2G-6"	LOT2G	0-6"	1/30/2011	<u>28.7</u>
S84-2G-6"	LOT2G	0-6"	1/30/2011	<u>73.3</u>
S85-2G-6"	LOT2G	0-6"	1/30/2011	<u>47.0</u>
S86-2G-6"	LOT2G	0-6"	1/30/2011	<u>134.0</u>
S87-2G-6"	LOT2G	0-6"	1/30/2011	<u>126.0</u>
S88-2G-6"	LOT2G	0-6"	1/30/2011	9.8
S89-2G-6"	LOT2G	0-6"	1/30/2011	<u>74.4</u>
S90-2G-6"	LOT2G	0-6"	1/30/2011	<u>44.3</u>
METHOD BLANK	NA	NA	2/1/2011	<1
Laboratory Method Reporting Limit			1	
Model Toxic Control Act (MTCA) Method A Cleanup Levels For Soil			20	

BOLD/<u>Underlined</u> = Analyte above MTCA 2001 Method A Cleanup levels for arsenic in soil.

Values are reported in milligrams per kilograms (mg/kg).

< # (ND) = analyte not detected above the analytical method reporting limit cited.

MTCA 2001 Method A Cleanup Levels for Unrestricted Residential Land Use - (MTCA) WAC 173-340-900 Tables.

bgs=below ground surface

NA=Not Applicable

Attachment C

Laboratory Results

Analytical Results Analytical Chain of Custody



ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

February 7, 2011

Steve Spencer, Project Manager Environmental Management Services, LLC 7006 27th Street W, Suite E Tacoma, WA 98466

Dear Mr. Spencer:

Included are the results from the testing of material submitted on January 31, 2011 from the Highland 20, LLC-0393-01, F&BI 101307 project. There are 106 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures EMS0207R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 31, 2011 by Friedman & Bruya, Inc. from the Environmental Management Services, Highland 20, LLC-0393-01, F&BI 101307 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	<u>Environmental Management Services, LLC</u>
<u>101307-01</u>	S1-A1-6"
101307-02	S1-A1-12"
101307-03	S2-A1-6"
101307-04	S2-A1-12"
101307-05	S3-A1-6"
101307-06	S3-A1-12"
101307-07	S4-A1-6"
101307-08	S4-A1-12"
101307-09	S5-A1-6"
101307-10	S5-A1-12"
101307-11	S6-A1-6"
101307-12	S6-A1-12"
101307-13	S7-A1-6"
101307-14	S7-A1-12"
101307-15	S8-A1-6"
101307-16	S8-A1-12"
101307-17	S9-A1-6"
101307-18	S9-A1-12"
101307-19	S10-A1-6"
101307-20	S10-A1-12"
101307-21	S11-1B-6"
101307-22	S11-1B-12"
101307-23	S12-1B-6"
101307-24	S12-1B-12"
101307-25	S13-1B-6"
101307-26	S13-1B-12"
101307-27	S14-1B-6"
101307-28	S14-1B-12"
101307-29	S15-1B-6"
101307-30	S15-1B-12"
101307-31	S16-1B-6"
101307-32	S16-1B-12"
101307-33	S17-1B-6"
101307-34	S17-1B-12"
101307-35	S18-1B-6"
101307-36	S18-1B-12"
101307-37	S19-1B-6"
101307-38	S19-1B-12"
101307-39	S20-1B-6"

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (continued)

Laboratory ID	<u>Environmental Management Services, LLC</u>
<u>101307-40</u>	S20-1B-12"
101307-41	S21-2F-6"
101307-42	S21-2F-12"
101307-42	S22-2F-6"
101307-44	S22-2F-12"
101307-45	S23-2F-6"
101307-46	S23-2F-12"
101307-47	S24-2F-6"
101307-48	S24-2F-12"
101307-49	S25-2F-6"
101307-50	S25-2F-12"
101307-51	S26-2F-6"
101307-52	S26-2F-12"
101307-53	S27-2F-6"
101307-54	S27-2F-12"
101307-55	S28-2F-6"
101307-56	S28-2F-12"
101307-57	S29-2F-6"
101307-58	S29-2F-12"
101307-59	S30-2E-6"
101307-60	S30-2E-12"
101307-61	S31-2E-6"
101307-62	S31-2E-12"
101307-63	S32-2E-6"
101307-64	S32-2E-12"
101307-65	S33-2E-6"
101307-66	S33-2E-12"
101307-67	S34-2E-6"
101307-68	S34-2E-12"
101307-69	S35-2E-6"
101307-70	S35-2E-12"
101307-71	S36-2E-6"
101307-72	S36-2E-12"
101307-73	S37-2E-6"
101307-74	S37-2E-12"
101307-75	S38-2E-6"
101307-76	S38-2E-12"
101307-77	S39-2E-6"
101307-78	S39-2E-12"
101307-79	S40-2E-6"
101307-80	S40-2E-12"
101307-81	S41-2D-6"

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (continued)

Laboratory IDEnvironmental Management Services, LLC101307-82S41-2D-12"101307-83S42-2D-6"101307-84S42-2D-12"101307-85S43-2D-6"101307-86S43-2D-12"101307-87S44-2D-6"101307-88S44-2D-12"101307-89S45-2D-6"101307-90S45-2D-12"101307-91S46-2D-6"101307-92S46-2D-12"101307-93S47-2D-12"101307-94S47-2D-6"101307-95S48-2D-12"101307-96S48-2D-12"101307-97S49-2D-6"101307-98S49-2D-12"101307-99S50-2D-6"101307-90S50-2D-12"101307-101S51-2B-6"101307-102S51-2B-12"101307-103S52-2B-6"101307-104S52-2B-12"101307-105S53-2B-6"101307-106S53-2B-12"101307-107S54-2B-6"101307-108S54-2B-12"101307-109S55-2B-6"101307-111S56-2B-12"101307-112S56-2B-12"101307-114S57-2B-6"	Laboratory ID	Environmental Management Services, LLC
101307-83 $S42-2D-6"$ $101307-84$ $S42-2D-12"$ $101307-85$ $S43-2D-6"$ $101307-86$ $S43-2D-12"$ $101307-87$ $S44-2D-6"$ $101307-87$ $S44-2D-6"$ $101307-89$ $S45-2D-6"$ $101307-90$ $S45-2D-12"$ $101307-91$ $S46-2D-6"$ $101307-92$ $S46-2D-12"$ $101307-93$ $S47-2D-6"$ $101307-94$ $S47-2D-12"$ $101307-95$ $S48-2D-6"$ $101307-96$ $S48-2D-6"$ $101307-97$ $S49-2D-6"$ $101307-98$ $S49-2D-12"$ $101307-99$ $S50-2D-6"$ $101307-100$ $S50-2D-6"$ $101307-101$ $S51-2B-6"$ $101307-102$ $S51-2B-6"$ $101307-103$ $S52-2B-6"$ $101307-104$ $S52-2B-12"$ $101307-105$ $S53-2B-6"$ $101307-108$ $S54-2B-12"$ $101307-109$ $S5-2B-6"$ $101307-110$ $S55-2B-12"$ $101307-111$ $S56-2B-6"$ $101307-112$ $S66-2B-6"$ $101307-113$ $S57-2B-6"$ $101307-114$ $S57-2B-6"$	•	0
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$\begin{array}{ccccccc} 101307\text{-}107 & S54\text{-}2B\text{-}6" \\ 101307\text{-}108 & S54\text{-}2B\text{-}12" \\ 101307\text{-}109 & S55\text{-}2B\text{-}6" \\ 101307\text{-}110 & S55\text{-}2B\text{-}12" \\ 101307\text{-}111 & S56\text{-}2B\text{-}6" \\ 101307\text{-}112 & S56\text{-}2B\text{-}12" \\ 101307\text{-}113 & S57\text{-}2B\text{-}6" \\ 101307\text{-}114 & S57\text{-}2B\text{-}12" \\ \end{array}$	101307-105	S53-2B-6"
101307-108S54-2B-12"101307-109S55-2B-6"101307-110S55-2B-12"101307-111S56-2B-6"101307-112S56-2B-12"101307-113S57-2B-6"101307-114S57-2B-12"	101307-106	
101307-109S55-2B-6"101307-110S55-2B-12"101307-111S56-2B-6"101307-112S56-2B-12"101307-113S57-2B-6"101307-114S57-2B-12"	101307-107	S54-2B-6"
101307-110S55-2B-12"101307-111S56-2B-6"101307-112S56-2B-12"101307-113S57-2B-6"101307-114S57-2B-12"	101307-108	S54-2B-12"
101307-111S56-2B-6"101307-112S56-2B-12"101307-113S57-2B-6"101307-114S57-2B-12"	101307-109	S55-2B-6"
101307-112S56-2B-12"101307-113S57-2B-6"101307-114S57-2B-12"		S55-2B-12"
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101307-114 S57-2B-12"		
101307-115 S58-2B-6"		
101307-116 S58-2B-12"		
101307-117 S59-2B-6"		
101307-118 S59-2B-12"		
101307-119 S60-2B-6"		
101307-120 S60-2B-12"		
101307-121 S61-2A-6"		
101307-122 S61-2A-12"		
101307-123 S62-2A-6"	101307-123	S62-2A-6"

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (continued)

Lativitation101307-124S62-2A.12"101307-125S63-2A.6"101307-126S63-2A.12"101307-127S64-2A.6"101307-128S64-2A.12"101307-129S65-2A.6"101307-130S65-2A.12"101307-131S66-2A.6"101307-132S66-2A.6"101307-133S67-2A.6"101307-134S67-2A.6"101307-135S68-2A.6"101307-136S68-2A.6"101307-137S69-2A.12"101307-138S69-2A.12"101307-139S70-2A.6"101307-140S70-2A.6"101307-141S71-2C-6"101307-142S71-2C-12"101307-143S72-2C-6"101307-144S73-2C-6"101307-145S73-2C-6"101307-148S74-2C-6"101307-150S75-2C-6"101307-151S76-2C-6"101307-153S78-2C-6"101307-154S77-2C-12"101307-155S78-2C-6"101307-154S77-2C-12"101307-155S78-2C-6"101307-154S77-2C-12"101307-155S78-2C-6"101307-156S78-2C-6"101307-157S79-2C-6"101307-164S82-2C-12"101307-164S82-2C-12"101307-164S82-2C-12"101307-165S83-2C-6"101307-161S82-2C-6"101307-161S82-2C-6"101307-161S82-2C-6"101307-165S83-2C-6"101307-161S82-2C-6"101307-1	Laboratory ID	Environmental Management Services, LLC
101307-125 $S63-2A-6"$ $101307-126$ $S63-2A-12"$ $101307-127$ $S64-2A-6"$ $101307-128$ $S64-2A-12"$ $101307-129$ $S65-2A-6"$ $101307-130$ $S65-2A-12"$ $101307-131$ $S66-2A-6"$ $101307-132$ $S66-2A-6"$ $101307-133$ $S67-2A-6"$ $101307-134$ $S67-2A-6"$ $101307-135$ $S68-2A-6"$ $101307-136$ $S68-2A-6"$ $101307-137$ $S69-2A-6"$ $101307-138$ $S69-2A-6"$ $101307-139$ $S70-2A-6"$ $101307-141$ $S71-2C-6"$ $101307-142$ $S71-2C-6"$ $101307-143$ $S72-2C-6"$ $101307-144$ $S72-2C-6"$ $101307-145$ $S73-2C-6"$ $101307-146$ $S73-2C-6"$ $101307-148$ $S74-2C-12"$ $101307-149$ $S75-2C-6"$ $101307-150$ $S75-2C-6"$ $101307-151$ $S76-2C-12"$ $101307-151$ $S76-2C-6"$ $101307-155$ $S78-2C-6"$ $101307-154$ $S77-2C-6"$ $101307-155$ $S78-2C-6"$ $101307-156$ $S78-2C-6"$ $101307-157$ $S79-2C-6"$ $101307-158$ $S79-2C-12"$ $101307-161$ $S81-2G-12"$ $101307-161$ $S81-2G-6"$ $101307-161$ $S81-2G-6"$ $101307-164$ $S82-2G-6"$		Ũ
101307-126 $S63-2A-12"$ $101307-127$ $S64-2A-6"$ $101307-128$ $S65-2A-6"$ $101307-130$ $S65-2A-12"$ $101307-131$ $S66-2A-6"$ $101307-132$ $S66-2A-6"$ $101307-133$ $S67-2A-6"$ $101307-134$ $S67-2A-6"$ $101307-135$ $S68-2A-6"$ $101307-136$ $S68-2A-6"$ $101307-137$ $S69-2A-6"$ $101307-138$ $S69-2A-12"$ $101307-139$ $S70-2A-6"$ $101307-139$ $S70-2A-6"$ $101307-141$ $S71-2C-6"$ $101307-142$ $S71-2C-6"$ $101307-143$ $S72-2C-6"$ $101307-144$ $S72-2C-6"$ $101307-145$ $S73-2C-6"$ $101307-146$ $S73-2C-12"$ $101307-147$ $S74-2C-6"$ $101307-148$ $S74-2C-12"$ $101307-151$ $S76-2C-6"$ $101307-155$ $S78-2C-6"$ $101307-154$ $S77-2C-6"$ $101307-155$ $S78-2C-12"$ $101307-154$ $S77-2C-6"$ $101307-155$ $S78-2C-12"$ $101307-156$ $S78-2C-12"$ $101307-158$ $S79-2C-6"$ $101307-158$ $S79-2C-6"$ $101307-161$ $S81-2G-6"$ $101307-161$ $S81-2G-6"$ $101307-164$ $S82-2G-12"$		
101307-127 $S64-2A-6"$ $101307-128$ $S64-2A-12"$ $101307-129$ $S65-2A-6"$ $101307-130$ $S65-2A-6"$ $101307-131$ $S66-2A-6"$ $101307-132$ $S66-2A-6"$ $101307-134$ $S67-2A-6"$ $101307-135$ $S68-2A-6"$ $101307-136$ $S68-2A-6"$ $101307-137$ $S69-2A-6"$ $101307-138$ $S69-2A-6"$ $101307-139$ $S70-2A-6"$ $101307-140$ $S70-2A-6"$ $101307-141$ $S71-2C-6"$ $101307-142$ $S71-2C-6"$ $101307-143$ $S72-2C-6"$ $101307-144$ $S72-2C-6"$ $101307-145$ $S73-2C-6"$ $101307-146$ $S73-2C-12"$ $101307-148$ $S74-2C-6"$ $101307-150$ $S75-2C-6"$ $101307-151$ $S76-2C-6"$ $101307-154$ $S77-2C-12"$ $101307-155$ $S78-2C-6"$ $101307-154$ $S77-2C-6"$ $101307-155$ $S78-2C-6"$ $101307-154$ $S79-2C-12"$ $101307-155$ $S78-2C-6"$ $101307-156$ $S78-2C-6"$ $101307-157$ $S79-2C-6"$ $101307-158$ $S79-2C-12"$ $101307-160$ $S80-2C-12"$ $101307-161$ $S81-2G-6"$ $101307-161$ $S81-2G-6"$ $101307-164$ $S82-2G-12"$		
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101307-140 $S70-2A-12"$ $101307-141$ $S71-2C-6"$ $101307-142$ $S71-2C-12"$ $101307-143$ $S72-2C-6"$ $101307-144$ $S72-2C-12"$ $101307-145$ $S73-2C-6"$ $101307-146$ $S73-2C-12"$ $101307-146$ $S73-2C-6"$ $101307-148$ $S74-2C-6"$ $101307-148$ $S74-2C-6"$ $101307-149$ $S75-2C-6"$ $101307-150$ $S75-2C-6"$ $101307-151$ $S76-2C-6"$ $101307-152$ $S76-2C-12"$ $101307-153$ $S77-2C-6"$ $101307-154$ $S77-2C-6"$ $101307-155$ $S78-2C-12"$ $101307-156$ $S78-2C-12"$ $101307-156$ $S78-2C-12"$ $101307-157$ $S79-2C-6"$ $101307-158$ $S79-2C-12"$ $101307-159$ $S80-2C-6"$ $101307-161$ $S81-2G-6"$ $101307-161$ $S81-2G-6"$ $101307-161$ $S82-2G-6"$ $101307-164$ $S82-2G-12"$		
101307-142 $S71-2C-12"$ $101307-143$ $S72-2C-6"$ $101307-144$ $S72-2C-12"$ $101307-145$ $S73-2C-6"$ $101307-146$ $S73-2C-12"$ $101307-147$ $S74-2C-6"$ $101307-148$ $S74-2C-12"$ $101307-149$ $S75-2C-6"$ $101307-150$ $S75-2C-6"$ $101307-151$ $S76-2C-6"$ $101307-152$ $S76-2C-12"$ $101307-153$ $S77-2C-6"$ $101307-154$ $S77-2C-6"$ $101307-155$ $S78-2C-6"$ $101307-156$ $S78-2C-12"$ $101307-158$ $S79-2C-6"$ $101307-158$ $S79-2C-12"$ $101307-159$ $S80-2C-6"$ $101307-160$ $S80-2C-12"$ $101307-161$ $S81-2G-6"$ $101307-161$ $S81-2G-6"$ $101307-162$ $S81-2G-6"$ $101307-164$ $S82-2G-12"$		S70-2A-12"
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101307-159S80-2C-6"101307-160S80-2C-12"101307-161S81-2G-6"101307-162S81-2G-12"101307-163S82-2G-6"101307-164S82-2G-12"		
101307-160S80-2C-12"101307-161S81-2G-6"101307-162S81-2G-12"101307-163S82-2G-6"101307-164S82-2G-12"	101307-158	
101307-161S81-2G-6"101307-162S81-2G-12"101307-163S82-2G-6"101307-164S82-2G-12"		
101307-162S81-2G-12"101307-163S82-2G-6"101307-164S82-2G-12"		
101307-163S82-2G-6"101307-164S82-2G-12"		
101307-164 S82-2G-12"		
101307-165 S83-2G-6"		
	101307-165	S83-2G-6"

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (continued)

Laboratory ID	Environmental Management Services, LLC
101307-166	S83-2G-12"
101307-167	S84-2G-6"
101307-168	S84-2G-12"
101307-169	S85-2G-6"
101307-170	S85-2G-12"
101307-171	S86-2G-6"
101307-172	S86-2G-12"
101307-173	S87-2G-6"
101307-174	S87-2G-12"
101307-175	S88-2G-6"
101307-176	S88-2G-12"
101307-177	S89-2G-6"
101307-178	S89-2G-12"
101307-179	S90-2G-6"
101307-180	S90-2G-12"

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S1-A1-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-01 101307-01.013 ICPMS1 AP
Internal Standard: Indium	% Recovery: 90	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	79.1		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S2-A1-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-03 101307-03.014 ICPMS1 AP
Internal Standard: Indium	% Recovery: 93	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	92.7		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S3-A1-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-05 101307-05.015 ICPMS1 AP
Internal Standard Indium	% Recovery: 91	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	104		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S4-A1-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-07 101307-07.016 ICPMS1 AP
Internal Standard		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	190		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S5-A1-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-09 101307-09.017 ICPMS1 AP
Internal Standard: Indium	% Recovery: 89	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	29.3		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S6-A1-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-11 101307-11.019 ICPMS1 AP
Internal Standard Indium		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	83.8		
ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S7-A1-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-13 101307-13.020 ICPMS1 AP
Internal Standard Indium	: % Recovery: 92	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	253		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S8-A1-6" 01/31/11 02/01/11 02/02/11 Soil	Client: Project: Lab ID: Data File: Instrument:	Environmental Management Services Highland 20, LLC-0393-01 101307-15 101307-15.021 ICPMS1 AP
Units:	mg/kg (ppm)	Operator:	AP
		Lower	Upper
Internal Standard	: % Recovery:	Limit:	Limit:
Indium	82	60	125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	42.9		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S9-A1-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-17 101307-17.022 ICPMS1 AP
Internal Standard: Indium	% Recovery: 91	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	157		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S10-A1-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-19 101307-19.023 ICPMS1 AP
Internal Standard: Indium	% Recovery: 92	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	66.5		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S11-1B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-21 101307-21.024 ICPMS1 AP
Internal Standard Indium	: % Recovery: 88	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	43.2		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S12-1B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-23 101307-23.025 ICPMS1 AP
Internal Standard Indium		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	102		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S13-1B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-25 101307-25.026 ICPMS1 AP
Internal Standard: Indium	% Recovery: 88	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	52.7		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S14-1B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-27 101307-27.027 ICPMS1 AP
Internal Standard: Indium	% Recovery: 90	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	53.6		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S15-1B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-29 101307-29.029 ICPMS1 AP
Internal Standard: Indium	% Recovery: 90	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	55.5		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S16-1B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-31 101307-31.030 ICPMS1 AP
Internal Standard: Indium	% Recovery: 93	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	231		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S17-1B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-33 101307-33.031 ICPMS1 AP
Internal Standard: Indium	% Recovery: 89	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	60.5		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S18-1B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-35 101307-35.010 ICPMS1 AP
Internal Standard: Indium	% Recovery: 92	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	66.5		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S19-1B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-37 101307-37.032 ICPMS1 AP
Internal Standard: Indium		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	59.5		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S20-1B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-39 101307-39.033 ICPMS1 AP
Internal Standard Indium	% Recovery: 87	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	8.50		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix:	S21-2F-6" 01/31/11 02/01/11 02/02/11 Soil	Client: Project: Lab ID: Data File: Instrument:	Environmental Management Services Highland 20, LLC-0393-01 101307-41 101307-41.040 ICPMS1
Units:	mg/kg (ppm)	Operator:	AP
Internal Standard: Indium	% Recovery: 85	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	62.1		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S22-2F-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-43 101307-43.041 ICPMS1 AP
Internal Standard: Indium	% Recovery: 89	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	59.7		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S23-2F-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-45 101307-45.042 ICPMS1 AP
Internal Standard: Indium	% Recovery: 90	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	77.0		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S24-2F-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-47 101307-47.043 ICPMS1 AP
Internal Standard: Indium	% Recovery: 89	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	29.2		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S25-2F-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-49 101307-49.044 ICPMS1 AP
Internal Standard: Indium	: % Recovery: 89	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	43.5		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S26-2F-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-51 101307-51.045 ICPMS1 AP
Internal Standard: Indium	% Recovery: 79	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	52.0		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S27-2F-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-53 101307-53.046 ICPMS1 AP
Onits.	ing/kg (ppin)		
		Lower	Upper
Internal Standard	: % Recovery:	Limit:	Limit:
Indium	88	60	125
	Concentration		
Analyte:	mg/kg (ppm)		
Arsenic	47.2		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S28-2F-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-55 101307-55.047 ICPMS1 AP
Internal Standard Indium	: % Recovery: 89	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	11.4		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S29-2F-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-57 101307-57.048 ICPMS1 AP
Internal Standard: Indium	% Recovery: 87	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	37.7		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S30-2E-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-59 101307-59.050 ICPMS1 AP
Internal Standard: Indium	% Recovery: 89	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	27.5		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S31-2E-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-61 101307-61.051 ICPMS1 AP
Internal Standard: Indium	% Recovery: 89	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	33.7		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S32-2E-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-63 101307-63.052 ICPMS1 AP
Internal Standard: Indium	% Recovery: 89	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	23.6		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S33-2E-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-65 101307-65.036 ICPMS1 AP
Internal Standard: Indium	% Recovery: 88	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	46.3		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S34-2E-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-67 101307-67.053 ICPMS1 AP
Internal Standard: Indium	% Recovery: 88	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	41.7		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S35-2E-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-69 101307-69.054 ICPMS1 AP
Internal Standard Indium	% Recovery: 90	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	84.3		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S36-2E-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-71 101307-71.055 ICPMS1 AP
Internal Standard		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	28.4		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S37-2E-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-73 101307-73.056 ICPMS1 AP
Internal Standard: Indium	% Recovery: 89	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	23.7		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S38-2E-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-75 101307-75.057 ICPMS1 AP
Internal Standard		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	42.0		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S39-2E-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-77 101307-77.058 ICPMS1 AP
Internal Standard Indium	: % Recovery: 88	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	55.2		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S40-2E-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-79 101307-79.059 ICPMS1 AP
Internal Standard: Indium	% Recovery: 87	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	37.9		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S41-2D-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-81 101307-81.066 ICPMS1 AP
Internal Standard: Indium		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	117		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S42-2D-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-83 101307-83.067 ICPMS1 AP
Internal Standard: Indium	% Recovery: 87	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	20.6		
ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S43-2D-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-85 101307-85.063 ICPMS1 AP
Internal Standard: Indium	% Recovery: 90	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	29.5		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S44-2D-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-87 101307-87.068 ICPMS1 AP
Internal Standard Indium	: % Recovery: 89	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	33.8		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S45-2D-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-89 101307-89.069 ICPMS1 AP
Internal Standard: Indium	% Recovery: 88	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	33.7		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S46-2D-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-91 101307-91.071 ICPMS1 AP
Internal Standard Indium	: % Recovery: 88	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	23.4		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S47-2D-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-93 101307-93.072 ICPMS1 AP
Internal Standard: Indium	% Recovery: 86	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	31.0		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S48-2D-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-95 101307-95.073 ICPMS1 AP
Internal Standard: Indium		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	30.7		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S49-2D-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-97 101307-97.074 ICPMS1 AP
Internal Standard Indium	: % Recovery: 89	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	49.8		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S50-2D-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-99 101307-99.075 ICPMS1 AP
Internal Standard Indium	: % Recovery: 88	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	14.9		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S51-2B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-101 101307-101.076 ICPMS1 AP
Internal Standard: Indium	% Recovery: 91	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	63.6		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S52-2B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-103 101307-103.077 ICPMS1 AP
Internal Standard: Indium	% Recovery: 89	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	20.1		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S53-2B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-105 101307-105.078 ICPMS1 AP
Internal Standard: Indium	% Recovery: 89	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	25.2		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S54-2B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-107 101307-107.079 ICPMS1 AP
Internal Standard Indium		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	18.1		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S55-2B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-109 101307-109.081 ICPMS1 AP
emits.	mg/ng (ppm)		
Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	91	60	125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	38.8		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S56-2B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-111 101307-111.082 ICPMS1 AP
Internal Standard		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	43.2		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S57-2B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-113 101307-113.083 ICPMS1 AP
Onits.	ing/kg (ppin)		
		Lower	Upper
Internal Standard	: % Recovery:	Limit:	Limit:
Indium	90	60	125
	Concentration		
Analyte:	mg/kg (ppm)		
Arsenic	120		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S58-2B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-115 101307-115.084 ICPMS1 AP
Internal Standard: Indium	% Recovery: 87	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	61.0		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S59-2B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-117 101307-117.085 ICPMS1 AP
Internal Standard: Indium	% Recovery: 88	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	37.3		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S60-2B-6" 01/31/11 02/01/11 02/02/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-119 101307-119.086 ICPMS1 AP
Internal Standard Indium		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	253		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S61-2A-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-121 101307-121.041 ICPMS1 AP
Onits.	ing/kg (ppin)	1	
		Lower	Upper
Internal Standard	% Recovery:	Limit:	Limit:
Indium	93	60	125
	Concentration		
Analyte:	mg/kg (ppm)		
Arsenic	138		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S62-2A-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-123 101307-123.042 ICPMS1 AP
Internal Standard Indium	: % Recovery: 93	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	119		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S63-2A-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-125 101307-125.044 ICPMS1 AP
Internal Standard: Indium	% Recovery: 91	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	33.7		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S64-2A-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-127 101307-127.045 ICPMS1 AP
Internal Standard: Indium	% Recovery: 93	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	58.7		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S65-2A-6" 01/31/11 02/01/11 02/03/11 Soil	Client: Project: Lab ID: Data File: Instrument:	Environmental Management Services Highland 20, LLC-0393-01 101307-129 101307-129.046 ICPMS1 AP
Units:	mg/kg (ppm)	Operator:	AP
		Lower	Upper
Internal Standard	% Recovery:	Limit:	Limit:
Indium	93	60	125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	173		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S66-2A-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-131 101307-131.047 ICPMS1 AP
Chitts.	ing ing (ppin)	Lower	Upper
Internal Standard Indium	: % Recovery: 86	Limit: 60	Limit: 125
marum	00	00	125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	240		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S67-2A-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-133 101307-133.048 ICPMS1 AP
Internal Standard: Indium	% Recovery: 93	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	52.4		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S68-2A-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-135 101307-135.038 ICPMS1 AP
Internal Standard: Indium	% Recovery: 91	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	13.2		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix:	S69-2A-6" 01/31/11 02/01/11 02/03/11 Soil	Client: Project: Lab ID: Data File: Instrument:	Environmental Management Services Highland 20, LLC-0393-01 101307-137 101307-137.049 ICPMS1
Units:	mg/kg (ppm)	Operator:	AP
Internal Standard: Indium	% Recovery: 94	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	245		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S70-2A-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-139 101307-139.050 ICPMS1 AP
Internal Standard: Indium	% Recovery: 90	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	88.7		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S71-2C-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-141 101307-141.051 ICPMS1 AP
Internal Standard: Indium	% Recovery: 87	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	56.2		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S72-2C-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-143 101307-143.053 ICPMS1 AP
Internal Standard Indium	: % Recovery: 90	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	46.5		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S73-2C-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-145 101307-145.054 ICPMS1 AP
Internal Standard: Indium	% Recovery: 90	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	17.6		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S74-2C-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-147 101307-147.055 ICPMS1 AP
Internal Standard Indium	: % Recovery: 96	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	182		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S75-2C-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-149 101307-149.056 ICPMS1 AP
Internal Standard: Indium		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	53.2		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S76-2C-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-151 101307-151.057 ICPMS1 AP
Internal Standard Indium	: % Recovery: 90	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	94.0		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S77-2C-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-153 101307-153.058 ICPMS1 AP
Internal Standard Indium		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	58.4		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S78-2C-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-155 101307-155.059 ICPMS1 AP
Internal Standard Indium		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	179		
ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S79-2C-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-157 101307-157.060 ICPMS1 AP
Internal Standard: Indium	% Recovery: 90	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	50.0		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S80-2C-6" 01/31/11 02/01/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-159 101307-159.061 ICPMS1 AP
Internal Standard: Indium		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	50.4		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S81-2G-6" 01/31/11 02/02/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-161 101307-161.077 ICPMS1 AP
Internal Standard: Indium	% Recovery: 92	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	77.5		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S82-2G-6" 01/31/11 02/02/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-163 101307-163.023 ICPMS1 AP
Internal Standard: Indium	% Recovery: 91	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	37.0		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S83-2G-6" 01/31/11 02/02/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-165 101307-165.024 ICPMS1 AP
Internal Standard: Indium	% Recovery: 95	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	28.7		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S84-2G-6" 01/31/11 02/02/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-167 101307-167.025 ICPMS1 AP
Internal Standard: Indium	% Recovery: 94	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	73.3		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S85-2G-6" 01/31/11 02/02/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-169 101307-169.026 ICPMS1 AP
Internal Standard: Indium	% Recovery: 90	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	47.0		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S86-2G-6" 01/31/11 02/02/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-171 101307-171.028 ICPMS1 AP
Internal Standard		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	134		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S87-2G-6" 01/31/11 02/02/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-173 101307-173.029 ICPMS1 AP
Onits.	ing/kg (ppin)		
		Lower	Upper
Internal Standard	: % Recovery:	Limit:	Limit:
Indium	96	60	125
	Concentration		
Analyte:	mg/kg (ppm)		
Arsenic	126		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S88-2G-6" 01/31/11 02/02/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-175 101307-175.030 ICPMS1 AP
Units.	ing/kg (ppin)		
		Lower	Upper
Internal Standard	: % Recovery:	Limit:	Limit:
Indium	94	60	125
	Concentration		
Analyte:	mg/kg (ppm)		
Arsenic	9.75		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	S89-2G-6" 01/31/11 02/02/11 02/03/11 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 101307-177 101307-177.031 ICPMS1 AP
Internal Standard Indium	% Recovery: 91	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	74.4		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix:	S90-2G-6" 01/31/11 02/02/11 02/03/11 Soil	Client: Project: Lab ID: Data File: Instrument:	Environmental Management Services Highland 20, LLC-0393-01 101307-179 101307-179.032 ICPMS1
Units:	mg/kg (ppm)	Operator:	AP
Internal Standard: Indium	% Recovery: 88	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	44.3		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed:	Method Blank Not Applicable 02/01/11 02/02/11	Client: Project: Lab ID: Data File:	Environmental Management Services Highland 20, LLC-0393-01 I1-69 mb I1-69 mb.008
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP
Internal Standard: Indium	% Recovery: 91	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	<1		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted: Date Analyzed:	Method Blank Not Applicable 02/01/11 02/02/11	Client: Project: Lab ID: Data File:	Environmental Management Services Highland 20, LLC-0393-01 I1-71 mb I1-71 mb.034
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP
Internal Standard: Indium	% Recovery: 83	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	<1		

ENVIRONMENTAL CHEMISTS

Client ID: Date Received: Date Extracted:	Method Blank Not Applicable 02/01/11	Client: Project: Lab ID:	Environmental Management Services Highland 20, LLC-0393-01 I1-72 mb
Date Analyzed:	02/02/11	Data File:	I1-72 mb.061
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP
Internal Standard: Indium	% Recovery: 88	Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		
Arsenic	<1		

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Blank Not Applicable 02/01/11 02/03/11 12:45:50 Soil mg/kg (ppm)	Client: Project: Lab ID: Data File: Instrument: Operator:	Environmental Management Services Highland 20, LLC-0393-01 I1-73 mb I1-73 mb.036 ICPMS1 AP
Internal Standard: Indium		Lower Limit: 60	Upper Limit: 125
Analyte:	Concentration mg/kg (ppm)		

Arsenic

<1

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Arsenic

Client ID:	Method Blank	Environment	al Management Services
Date Received:	Not Applicable	Project:	Highland 20, LLC-0393-01
Date Extracted:	02/02/11	Lab ID:	I1-75 mb
Date Analyzed:	02/03/11 10:47:51	Data File:	I1-75 mb.008
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP
		Lower	Upper
Internal Standard:	% Recovery:	Limit:	Limit:
Indium	95	60	125
	Concentration		
Analyte:	mg/kg (ppm)		

<1

100

ENVIRONMENTAL CHEMISTS

Date of Report: 02/07/11 Date Received: 01/31/11 Project: Highland 20, LLC-0393-01, F&BI 101307

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 101307-35 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	66.5	123 b	197 b	44-151	46 b

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	103	80-120

ENVIRONMENTAL CHEMISTS

Date of Report: 02/07/11 Date Received: 01/31/11 Project: Highland 20, LLC-0393-01, F&BI 101307

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 101307-65 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	46.3	103 b	147 b	44-151	35 b

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	101	80-120

ENVIRONMENTAL CHEMISTS

Date of Report: 02/07/11 Date Received: 01/31/11 Project: Highland 20, LLC-0393-01, F&BI 101307

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 101307-85 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	29.5	102 b	112 b	44-151	9 b

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	98	80-120

ENVIRONMENTAL CHEMISTS

Date of Report: 02/07/11 Date Received: 01/31/11 Project: Highland 20, LLC-0393-01, F&BI 101307

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 101307-135 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	13.2	107 b	131 b	44-151	20 b

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	101	80-120

ENVIRONMENTAL CHEMISTS

Date of Report: 02/07/11 Date Received: 01/31/11 Project: Highland 20, LLC-0393-01, F&BI 101307

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 101302-11 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	2.03	93 b	100 b	44-151	7 b

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	100	80-120

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

 $\ensuremath{\text{ip}}$ - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

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Company <u>Environment</u>	al Mana	gement Se	rvices, LLC		OJECT NAMI C – 0393-01	E/NO.	High	land	. 20,			PC)#				lard (2			
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624-2 F- 12'	48																	1	AGH	
525-27-6"	49																		Run	
525-2F-12"	50	4										す							hold	
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City, State, ZIP <u>Tacoma</u>	REMAR	REMARKS										SAMPLE DISPOSAL Dispose after 30 days							
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Attachment D

Professional Qualifications



Environmental Management Services, LLC

Environmental Management Services (EMS) is an environmental contracting and consulting company addressing client's needs throughout the West Coast. Our serves industries include the real estate community, general contractors, property developers and local and state government. We understand the importance of blending a variety of expertise and experience in order to provide our clients the most effective leadership in addressing their specific project needs. Our professionals combine a high level of technical ability with a broad understanding of the overall regulatory compliance requirements.

As an environmental services and consulting company, EMS prides itself maintaining a broad understanding of the most current regulatory compliance requirements, local and state permitting requirements and maintaining contact with our region's environmental advocacy group's positions. EMS provides our clients the services they require by offering cost effective, non-biased, practical, solutions while maintaining positive relations with the regulatory community.

Our associates have completed projects including remedial investigation / feasibility studies (RI/FS), remediation design and management, facility regulatory compliance assessments, due diligence assessments, regulatory compliance training, underground storage tank compliance and hazardous materials management as well as many other environmental compliance related matters for clients throughout the west coast in all avenues of business. The varied background our associates possess compliments the diverse nature of our clientele, providing better understanding of our client's needs and ultimate goals for their projects.

The information in the following pages outlines our professional experience and capabilities in providing environmental management and consulting services. We appreciate your interest in EMS. At your convenience, please feel free to contact our office should you have any questions regarding this document or for more information on the services we provide.

Sincerely, Environmental Management Services

Stephen M. Spencer Principal



Stephen M. Spencer Principal

Mr. Spencer started his career in the environmental services and construction industry in 1987. During his career, he has worked on and successfully completed projects in many varied aspects of the environmental industry. Since 2002, as principal and senior project manager for Environmental Management Services, Mr. Spencer has successfully completed projects for clients throughout the west coast. His forte is in facility assessment, due diligence investigation, health & safety program development and remediation management.

Mr. Spencer has established positive working relationships with regulatory agencies throughout the west coast, affording his clients a superior level of confidence in his approach to their specific project.

His skills as a project manager frequently result in significant savings in both time and budget to his clients. He is proficient in report writing providing a clear, concise detail of project activities including supporting documents and figures. His client's have ranged from property owners and facility operators to the regulatory agencies themselves. His overall understanding of environmental compliance requirements provides a unique perspective on assessing potential and realized environmental risk and a creative understanding of remediation technique.

Robin P. Hamlet, L.G. / L.HG Sr. Environmental Scientist / Project Manager

- State of Washington Licensed Geologist/Hydrogeologist
- Ecology Licensed Washington State Site Assessor
- Ecology Licensed UST Decommissioning Supervisor
- AHERA Licensed Building Inspector
- OSHA Hazardous Materials & Emergency Response Certified

Robin P. Hamlet is a Licensed Geologist and Hydrogeologist in the State of Washington. Mr. Hamlet has 30 years experience in the geological sciences with over 25 years providing professional environmental consulting services. Mr. Hamlet has been involved with environmental investigations working on Environmental Protection Agency (EPA), United States Navy and Air Force environmental projects, as a project geologist and project manager. As a Senior Project Manager in the private sector, Mr. Hamlet has performed multiple Phase I and Phase II Environmental Site Assessments; including geophysical surveys, soil and groundwater studies and has managed the design and implementation of soil and groundwater remediation projects.



As a Licensed Washington State Underground Storage Tank (UST) Decommissioner and Licensed Site Assessor, Mr. Hamlet has managed multiple UST decommissioning and remediation projects, has prepared proposals, final reports, budgets, contracts with subcontractors, negotiated with prospective clients, and coordinated activities with regulatory agencies. Mr. Hamlet has been involved in training personnel in environmental field operations and Health & Safety programs, has working knowledge of state (NW states) and federal environmental regulations and the ASTM standards. As an AHERA Building Inspector, Mr. Hamlet has performed hazardous materials surveys, air monitoring projects as well as providing asbestos abatement projects.

Adam Harris, L.G. Sr. Environmental Scientist (Contract)

- Master of Science in Sedimentary Geology
- Licensed geologist in California and Washington
- Current OSHA 40 Hour HAZWOPER
- Certified Oracle Database 9 Administrator
- Certified MS Access 2007 Administrator
- Certified ARC/INFO 9.1 Professional

Mr. Harris has a Batchers of Science degree from the University of California (UC), Davis in Environmental & Recourses Sciences, Specializing in Vadose zone and aqueous geochemistry, hydrology, and environmental management. Mr. Harris graduated with Honors and a Citation for excellence. Mr. Harris continued his education, receiving his Masters in Geology from the University of California, Davis. His thesis Topic was: Environmental geochemistry and paleomagnetism of sediment cores obtained from Ocean Drilling Program Leg 169S, Saanich Inlet, British Columbia.

Engineering Geologist, Leaking Underground Storage Tank Cleanup Program (2001 to 2005)

- Mr. Harris, as a California State Water Recourses Board site manager, implemented state and federal regulations for LUST program. He provided regulatory oversight, reviewed and commented on hydrogeologic reports, plans and findings submitted by other regulated parties for LUST surface spill sites, and surface mines.
- Mr. Harris conducted site investigations, developed site conceptual models, model development, calibration and validation. Further, he reviewed petitions appealing technical decisions of local and regional agencies, Mediated and resolved conflicts between local regulatory agencies and the regulated community.



- Mr. Harris has authored professional opinions, position papers, technical reports, legal orders, notices, presentations and letters for wide stakeholder distribution. Investigated and reported on emerging contaminant fate and transport pathways and collaborated on development and management of statewide online site reporting database.
- Provided technical oversight and guidance to local UST programs, building local program knowledge and ensuring statewide program consistency. Conducted oversight of UST inspections for consistency in program implementation. Introduced legislative concepts resulting in promulgation of new UST regulations.

Geologic Technician - 1999 to 2000

• Mr. Harris participated in international scientific research expedition. Planned transport, set up and operation of environmental analysis laboratory in Antarctica. Investigated and analyzed high-resolution environmental records. Reported research results for publication.

James E. Corcoran, P.E. Sr. Project Manager / Sr. Project Engineer (Contract)

- Bachelor of Science Civil Engineering Oregon State University 1991
- Washington State Registered Professional Engineer 1999
- OSHA Hazardous Materials & Emergency Response Certified

Mr. Corcoran has 17 years of experience in Civil Engineering and Project Management. For the past three years, Mr. Corcoran has been the principal of a consulting business that provides civil engineering consulting and site development services including:

- Critical Areas Review
- FEMA floodplain study
- State Environmental Policy Act (SEPA) checklist
- Stormwater Pollution Prevention Plans (SWPPP)
- Spill Prevention, Control, and Countermeasure (SPCC) plans
- Temporary Erosion/Sediment Control (TESC) plans
- Permanent soil stabilization and precise grading plans
- Surface water collection, detention, retention, treatment, and infiltration design
- Construction coordination with utility purveyors
- Site inspection to verify conformance with design intent and contract documents

Mr. Corcoran has provided civil engineering consulting and stormwater management on residential, commercial, and industrial development projects in multiple Washington state jurisdictions including the City of Tacoma, the City of Lacey, the City of Kent, Pierce County, and King County. Specific projects that Mr. Corcoran provided engineering service include:



- Preparing a TESC plan, SPCC plan, and surface water drainage collection and treatment system for a proposed petroleum products recycling process facility which discharges to a municipal storm sewer located in the Port of Tacoma
- Preparing a SEPA checklist, TESC plan, SPCC plan and surface water drainage collection and treatment system for a proposed privately owned fueling facility, which drains to an environmentally sensitive wetland in the City of Kent.
- Preparing a TESC plan, and permanent surface water drainage retention and treatment system, which infiltrates to site soils underlying a proposed commercial retail center in Pierce County.
- Preparing a TESC plan and permanent surface water drainage collection and treatment system which discharges to a municipal storm sewer in the City of Tacoma.
- Preparing a TESC plan and permanent surface water drainage collection, detention and treatment system for a proposed supermarket and commercial retail center located on the Key Peninsula.

Collette Foley, B.S. Geology Environmental Scientist / Geologist

- Ecology Licensed Site Assessor
- Ecology Licensed UST Decommissioning Supervisor
- AHERA Licensed Building Inspector
- OSHA Compliance Supervisor
- OSHA Hazardous Materials & Emergency Response Certified

Ms. Foley has been conducting Phase I and II Environmental Site Assessments of commercial, industrial, multi- and single-family residential properties throughout western Washington since 2004. Ms. Foley performs a variety of activities associated with completing due diligence investigations including, but not limited to current and historical site research, regulatory agency file reviews, and subsurface investigations including drilling soil borings and installing monitoring wells to determine the presence and outcome of contamination in soil and groundwater.

Additionally, Ms. Foley completes asbestos "*Good Faith*" surveys prior to demolition or renovation of buildings; conducts project oversight for UST removals; and provides extensive environmental consulting as requested. Ms. Foley received her Bachelors degree in Geology and Environmental Science in 2003 from Pacific Lutheran University and has over two years experience as a field geologist / hydrogeologist performing regional hydrogeologic characterization and production well drilling.



Kevin Foley, B.S. Environmental Science, AICP Sr. Environmental Planner

- AICP Certified Planners
- Washington State Commercial Real Estate Agent

Mr. Foley currently serves as EMS's main point of contact to assist in the resolution of land use, zoning and permitting issues at the local, state and federal level. He has extensive experience in helping prepare and process development proposals for vacant property and the expansion or renovation of developed sites. He also coordinates certain baseline/investigative work by coordinating land surveys needs, sensitive area analysis and the completion of civil design plans for roads, water, traffic and storm water requirements.

Gina Mulderig, B.S. Chemistry Environmental Scientist / Chemist

- Ecology Licensed Site Assessor
- Ecology Licensed UST Decommissioning Supervisor
- AHERA Licensed Building Inspector
- Certified Erosion and Sediment Control Lead
- OSHA Hazardous Materials & Emergency Response Certified

Ms. Mulderig received her Bachelors degree in Chemistry from the University of Puget Sound in 1979. Ms. Mulderig has been working in the environmental regulatory compliance field since 1985, starting her career with a position as an environmental analyst for Weyerhaeuser Company. Her fifteen year position at Weyerhaeuser required a thorough knowledge of environmental regulatory compliance, focusing on groundwater monitoring, waste water management, storm water management and facility compliance audits.

Ms. Mulderig worked with two local environmental services / consulting firms from 2000 until 2007, greatly increasing her overall regulatory compliance, hydrogeology and environmental engineering knowledge and experience.

Her position with EMS as a Project Manager / Environmental Scientist provides a vast knowledge base to EMS clients in multiple areas of regulatory compliance and environmental science.



Kaitlyn Allegretti, B.S. Geology Environmental Scientist / Technician

- Ecology Licensed UST Decommissioning Supervisor
- Ecology Licensed Site Assessor
- AHERA Licensed Building Inspector
- OSHA Hazardous Materials & Emergency Response Certified

Ms. Allegretti serves as a site manager and field technical for EMS. Ms. Allegretti graduated from the University of Dayton (2005) with a Bachelor's degree in Geology. Ms. Allegretti's primary responsibilities are field work including monitoring well sampling, underground storage tank closure and decommissioning and asbestos inspections. Ms. Allegretti was licensed as an AHERA building inspector and UST Decommissioner within the first 60 days of her employment.

During her two years with EMS, Ms. Allegretti has completed in excess of fifty Phase I Environmental Site Assessments and in excess of 20 commercial underground storage tank closure projects.

James D. Coppernoll, L.G. / L.HG (Sub-Consultant) Licensed Geologist / Hydrogeologist

- Washington State Licensed Geologist and Hydrogeologist
- Ecology Licensed Site Assessor

James D. Coppernoll is a Washington State licensed Geologist and Hydrogeologist with thirteen years of experience practicing environmental geology in the Northwest. During his career, Mr. Coppernoll worked with clients ranging from major oil companies and national corporations to local businesses to identify, manage, and resolve their environmental problems and helped local agencies, businesses, and individuals with their environmental, geological, and regulatory issues.

Mr. Coppernoll has conducted various environmental and geological investigations ranging from numerous Phase I Environmental Assessments to contaminated site investigations and remedial planning and implementation as well as land use and development studies in Washington, Oregon, Idaho, Montana, and Alaska, and has frequently acted as a regulatory liaison and client representative in third-party negotiations.

Mr. Coppernoll managed all phases of assessment and remediation at dozens of retail and bulk fuel facilities for major oil companies in the Northwest including: excavation and disposal of contaminated soil; free product recovery; feasibility studies; and design, installation, and



operation/maintenance of in-situ soil and ground water remediation systems. Mr. Coppernoll managed many of these sites from initial assessment through remediation and closure with the state.

Mr. Coppernoll has conducted geological investigations and assessments for diverse property development projects in the northwest including landfills, hot springs, and residential properties. The purpose of these assessments and investigations was to provide professional and reliable information for use in developing sensitive areas properties.

Professional References

Diamond Parking Services Mr. Bob Turley, CFO 3161 Elliott Ave. Ste. 200 Seattle, Washington 98121 (206) 284-3100 (Client)

Michael J. Goldfarb Enterprises, LLC Brett Goldfarb, President 1420 Fifth Avenue. Suite 2625 Seattle, WA 98101-2333

The Wattles Company Craig Wattles, President 35800 2249th Ave SE Enumclaw, Washington 98022 (253) 272-7205

Baseline Engineering, Inc. Terry Ferguson 1910 64th Ave. West Fircrest, WA 98466 (253) 565-4491 (Client)

Best Parking Lot Services Rebecca Craig, Owner PO Box 159 Sumner, Washington 98390 (253) 863-3330 (Client) Republic Services / Regional Disposal Leslie Whiteman, Special Waste Manager 54 South Dawson Street Seattle, Washington 98134 (206) 332-7711 (Client)

Joe Hall Construction Robert Walker, Project Manager 1317 54th Ave. E. Tacoma, Washington 98424 (253) 922-6815 (Client)

R.W. Rhine, Inc. Mr. Joel D. Simmonds, President 1124 112th St. East Tacoma, Washington 98445 (253) 531-9548 (Client)

CAM Properties Mr. Peter Coates, President 18420 68th Avenue Kent, Washington 98032 (425) 251-3268 (Client)

Gallanar Inc. / Independent Fuels Mike Gallanar, President PO Box 15661 Seattle, Washington 98115 (206) 779-8860 (Client)



Environmental Management Services, LLC providing practical environmental compliance solutions

Financial Institution References

First Savings Bank Northwest Mr. John Wallace, Sr. Vice President Commercial Lending 400 Industrial Drive, Suite 110 Tukwila, Washington 98188 (206) 719-0118

KeyBank Jennifer E. Ringenbach, Vice President Commercial Lending 1101 Pacific Avenue Post Office Box 11500 Tacoma, Washington 98411-5500

Washington First International Bank Kathleen Herdlein Manager 9709 Third Ave NE, Suite 110 Seattle, Washington (206) 830-7156

Commercial Real Estate References

Johnson Commercial Tim Johnson, President 11120 Gravely Lake Drive SW Lakewood, Washington 984999 (253) 589-9999 / tim@tjcp.biz

Neil Walter Company Bruce Valentine, Principal Foss Landing 1940 East D Street, Suite 100 Tacoma, Washington 98421 (253) 779-2400/bvalentine@neilwalter.com West Coast Bank Mr. Robert Salvador, Vice President Commercial Lending 400 Industrial Drive, Suite 110 Tukwila, Washington 98188 (206) 719-0118

Washington Trust Bank Mr. Jack Heath, President PO Box 2127 Spokane, Washington 99210-2127 (509) 353-3897

CB Richard Ellis | Brokerage Services John Bauder, Vice President 1145 Broadway Plaza, Suite 1000 Tacoma, WA 98402 (253) 596-0047 / John.Bauder@cbre.com

PDSK Properties, Inc. Paul Krakow, President PO Box 98630 Lakewood, WA 98496-8630 (253) 627-4070



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Public Agency References

Tacoma Pierce County Health Department Rob Olsen, Special Inspector 3629 South D Street, MS 170 Tacoma, WA 98418-6813 (253) 798-2855 - Office

Tacoma Public Utilities Paris Um, Health & Safety Manager 3628 South 35th Street Tacoma, WA 98411-0007 (253) 502-8555 - Office

Washington Department of Ecology Carol Johnston, Site Manager / Inspector PO Box 47775 Olympia, WA 98504-7775 (360) 407-6263 – Office

Yakima County Mark Cleaver, Project Engineer 128 N. 2nd Street, Fourth Floor Yakima, Washington 98901 (509) 574-2314 Tacoma Pierce County Health Department Sharon Bell, Special Inspector 3629 South D Street, MS 170 Tacoma, WA 98418-6813 (253) 798-2891 – Office

Pierce County Rick Tacket, Property Manager 1102 Broadway Tacoma, Washington 98402 (253) 798-6200

King County DDES Elizabeth Deraitus Abatement Manager 900 Oakesdale Ave SW Renton, WA 98057-5212 206-296-7090

Washington Department of Ecology Chuck Cline, Program Director PO Box 47775 Olympia, WA 98504-7775 (360) 407-6267 - Office



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To Joe Foss, Stephen Spencer, Wayne Thronson, Doug McArthur, cavanar@wsdot...

5/02/12 Reply **v**

Hi Joe and Steven,

Thank you very much for the revised cleanup action plan. We appreciate the additional information about the tee boxes, including the written description and drawing.

Ecology is trying to work with you to find a viable solution for the contaminated soil. Ecology liked your idea of putting the contaminated soil under the tee boxes. However, we were under the impression that you were going to cap the contaminated soil under the tee boxes using the appropriate engineering controls (see e-mail from Stephen Spencer below).

Based on the revised cleanup action plan, it sounds like the contaminated soil from the newly created lots will be moved to the parent parcel. Grass seed will be spread on the newly consolidated contaminated soil mounds, which are to be used as tee boxes. There appears to be no engineering controls for the consolidated contaminated soil. In the revised Cleanup Action Plan, you stated that "as the receiving area where the Tee Box is to be constructed is also impacted with arsenic, further capping features are deemed excessive." Ecology respectfully disagrees. Since no other sampling has been conducted throughout the golf course, it is unknown what concentrations of arsenic are present. What we do know are the concentrations of arsenic in the soil to be consolidated, which needs to be handled accordingly.

In the draft Interim Action Plan (hyperlink), Ecology wants consolidated contaminated soil to be capped with either a soil cap or hard cap to protect human health and the environment. A soil cap would be clean soil and geotextile liner covering the contaminated soil. A hard cap would be asphalt, concrete, or paving over the contaminated soil. Please see Chapter 11 (pages 79 – 93) in the draft Interim Action Plan for more details about appropriate engineering controls for consolidated contaminated soil. As reminder, an environmental covenant would need to be placed on the parent parcels where the engineered controls are implemented. This would be a condition of receiving a Property-Specific NFA for the proposed new lots that will be remediated. Ecology will not give the parent parcels an NFA since these parcels will not be remediated. These parcels would remain listed on Confirmed and Suspected Contaminated Sites List. Even though the parent parcels would not be getting an NFA, they would still be subject to periodic reviews.

Please revise the plans for the tee boxes to either have a soil or hard cap over the consolidated contaminated soil in the tee boxes. If you do choose to use a soil cap, please choose the soil cap appropriate for the level of contamination found. Some of the lots have high levels of arsenic and the second states and the where the state of the state of

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Elizabeth Weldin

contamination and a type 1 soil cap would not be appropriate.

If you have any questions, feel free to contact me.

Thank you.

Elizabeth Weldin Technical Assistance Coordinator Toxics Cleanup Program, Southwest Regional Office Washington State Department of Ecology 360-407-7094

From: Stephen Spencer [mailto:sspencer@ecocononline.com]
Sent: Thursday, December 29, 2011 10:51 AM
To: Weldin, Elizabeth (ECY)
Cc: JOE FOSS; Matt Loxterman
Subject: RE: Highlands Golf VCP

Elizabeth,

I have meet with Joe Foss and the other Highland Golf managers. They have asked that I present you with an alternative "remediation plan". Basically, they are developing four lots that reside in two tax parcels. They want to remediate the proposed lots prior to being subdivided, place the impacted soil into tee-boxes located on the associated tax parcels, then subdivide the remediated lots. The tee-boxes will be engineered using appropriate engineering controls. I have explained that the tax parcels that contain the impacted soil will remain on the Confirmed and Suspected Contaminated Sites List (CSCSL), but the new lots, now being free of impacted soil should qualify for a No Further Action determination.

They have also asked to be put on whatever lists, grants, etc. that are available for assistance with the Asarco Settlement fund. If you could forward me the Ecology contacts that are managing the Settlement Fund, I will be putting together a proposal for their consideration.

Best Regards,

Stephen Spencer

President | EcoCon, Inc.



Direct: 253.921.7059 | Fax: 253.369.6228 | Office: 253.238.9270

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