

**APPENDIX B – FIELD
PARAMETER
SAMPLING FORMS**

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-67-9.6

Purge Date: 12/14/2016

Depth to Water ($\pm 0.1\text{ft.}$): 11.08

Well Depth ($\pm 0.1\text{ft.}$): 31.05

Water Column ($\pm 0.1\text{ft.}$): 19.97

Casing Volume ($\pm 0.1\text{gal.}$): 3.25

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1223

Purge End Time: 1230 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 0.60

FIELD PARAMETER LOG

Flow Rate (<i>ml/min</i>)	Time	pH (<i>std. units ± 0.1</i>)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (<i>mg/L</i>)	ORP (<i>mV</i>)	Turbidity (<i>NTU</i>)
600	1226	7.1	1170	15.1	0.95	-22.0	OOR
600	1228	7.0	1170	15.5	0.62	-23.7	425
600	1230	7.0	1170	15.6	0.58	-27.2	186
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/14/2016

Sample Time: 1230

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/14/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/14/2016

Sample Location ID: T-67-9.6

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-67-11.6 + DUP

Purge Date: 12/14/2016

Depth to Water ($\pm 0.1\text{ft.}$): 11.08

Well Depth ($\pm 0.1\text{ft.}$): 31.05

Water Column ($\pm 0.1\text{ft.}$): 19.97

Casing Volume ($\pm 0.1\text{gal.}$): 3.25

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1233

Purge End Time: 1240 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 0.60

FIELD PARAMETER LOG

Flow Rate (<i>ml/min</i>)	Time	pH (<i>std. units ± 0.1</i>)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (<i>mg/L</i>)	ORP (<i>mV</i>)	Turbidity (<i>NTU</i>)
400	1236	7.0	1190	14.4	0.54	76.2	OOR
400	1238	7.0	1190	15.1	0.44	53.0	270
400	1240	7.0	1190	14.9	0.35	43.2	88.4
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/14/2016

Sample Time: 1240

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/14/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

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Date: 12/14/2016

Sample Location ID: T-67-11.6 + DUP

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	KF
--	----

Post-Sampling

Samples property labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-67-13.6

Purge Date: 12/14/2016

Depth to Water ($\pm 0.1\text{ft.}$): 11.08

Well Depth ($\pm 0.1\text{ft.}$): 31.05

Water Column ($\pm 0.1\text{ft.}$): 19.97

Casing Volume ($\pm 0.1\text{gal.}$): 3.25

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1244

Purge End Time: 1250 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 0.40

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
500	1247	7.1	1290	15.7	0.49	-87.6	OOR
500	1249	7.0	1280	15.7	0.35	-97.6	846
500	1250	7.0	1310	15.9	0.26	-93.7	398
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/14/2016

Sample Time: 1250

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/14/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

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Date: 12/14/2016

Sample Location ID: T-67-13.6

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO3	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-67-15.6

Purge Date: 12/14/2016

Depth to Water ($\pm 0.1\text{ft.}$): 11.08

Well Depth ($\pm 0.1\text{ft.}$): 31.05

Water Column ($\pm 0.1\text{ft.}$): 19.97

Casing Volume ($\pm 0.1\text{gal.}$): 3.25

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1252

Purge End Time: 1258 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 0.50

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
600	1255	6.9	1320	16.2	0.33	-55.1	444
600	1256	7.0	1340	16.4	0.16	-73.0	232
600	1258	6.9	1340	15.9	0.14	-82.1	65.6
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/14/2016

Sample Time: 1258

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/14/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

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Date: 12/14/2016

Sample Location ID: T-67-15.6

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-67-17.6

Purge Date: 12/14/2016

Depth to Water ($\pm 0.1\text{ft.}$): 11.08

Well Depth ($\pm 0.1\text{ft.}$): 31.05

Water Column ($\pm 0.1\text{ft.}$): 19.97

Casing Volume ($\pm 0.1\text{gal.}$): 3.25

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1259

Purge End Time: 1305 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 0.70

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
600	1303	6.9	1280	16.7	0.15	105.7	159
600	1304	7.0	1280	16.8	0.14	112.5	178
600	1305	7.0	1280	17.0	0.21	114.7	65.6
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/14/2016

Sample Time: 1305

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/14/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

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Date: 12/14/2016

Sample Location ID: T-67-17.6

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-67-19.6

Purge Date: 12/14/2016

Depth to Water ($\pm 0.1\text{ft.}$): 11.08

Well Depth ($\pm 0.1\text{ft.}$): 31.05

Water Column ($\pm 0.1\text{ft.}$): 19.97

Casing Volume ($\pm 0.1\text{gal.}$): 3.25

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1307

Purge End Time: 1314 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 0.60

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
500	1310	7.0	1270	16.0	0.28	-9.6	283
500	1312	7.0	1250	16.1	0.14	-51.6	96.3
600	1314	7.0	1250	16.5	0.14	-72.4	29.3
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/14/2016

Sample Time: 1314

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/14/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

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Date: 12/14/2016

Sample Location ID: T-67-19.6

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-67-21.6

Purge Date: 12/14/2016

Depth to Water ($\pm 0.1\text{ft.}$): 11.08

Well Depth ($\pm 0.1\text{ft.}$): 31.05

Water Column ($\pm 0.1\text{ft.}$): 19.97

Casing Volume ($\pm 0.1\text{gal.}$): 3.25

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1316

Purge End Time: 1322 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 0.75

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
600	1318	7.0	1250	16.1	0.30	-55.6	643
500	1320	7.0	1250	16.2	0.16	-90.2	156
600	1322	7.0	1250	16.3	0.13	-95.9	29.3
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/14/2016

Sample Time: 1322

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/14/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

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Date: 12/14/2016

Sample Location ID: T-67-21.6

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-67-23.6

Purge Date: 12/14/2016

Depth to Water ($\pm 0.1\text{ft.}$): 11.08

Well Depth ($\pm 0.1\text{ft.}$): 31.05

Water Column ($\pm 0.1\text{ft.}$): 19.97

Casing Volume ($\pm 0.1\text{gal.}$): 3.25

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1325

Purge End Time: 1332 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 0.50

FIELD PARAMETER LOG

Flow Rate (<i>ml/min</i>)	Time	pH (<i>std. units ± 0.1</i>)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (<i>mg/L</i>)	ORP (<i>mV</i>)	Turbidity (<i>NTU</i>)
500	1328	7.0	1880	15.8	1.88	58.1	243
500	1330	7.0	1890	15.9	0.96	65.0	57.7
500	1332	7.0	1950	16.0	0.51	40.6	20.6
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/14/2016

Sample Time: 1332

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/14/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

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Date: 12/14/2016

Sample Location ID: T-67-23.6

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-67-25.6

Purge Date: 12/14/2016

Depth to Water ($\pm 0.1\text{ft.}$): 11.08

Well Depth ($\pm 0.1\text{ft.}$): 31.05

Water Column ($\pm 0.1\text{ft.}$): 19.97

Casing Volume ($\pm 0.1\text{gal.}$): 3.25

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1335

Purge End Time: 1340 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 0.75

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
600	1336	6.9	3580	16.4	1.48	17.6	165
600	1338	6.9	3610	16.4	1.45	22.3	22.3
600	1340	6.9	3650	16.5	1.50	30.9	20.6
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/14/2016

Sample Time: 1340

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/14/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

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Date: 12/14/2016

Sample Location ID: T-67-25.6

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-67-27.6

Purge Date: 12/14/2016

Depth to Water ($\pm 0.1\text{ft.}$): 11.08

Well Depth ($\pm 0.1\text{ft.}$): 31.05

Water Column ($\pm 0.1\text{ft.}$): 19.97

Casing Volume ($\pm 0.1\text{gal.}$): 3.25

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1343

Purge End Time: 1340 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 0.75

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
NO FLOW							
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/14/2016

Sample Time: 1340

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/14/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/14/2016

Sample Location ID: T-67-27.6

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form

KF

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)

KF

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)

KF

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO₃

KF

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)

N/A

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed

KF

Field Parameter Form completed per EPM-SAP-111

KF

Used filters collected and bagged for HP screening

KF

All equipment decontaminated per EPM-SAP-107

KF

**CIMARRON ENVIRONMENTAL RESPONSE TRUST
FIELD PARAMETER FORM**

Sample Location: T-67

Purge Date: 12/14/2016

Depth to Water ($\pm 0.1\text{ft.}$): 11.08

Well Depth ($\pm 0.1\text{ft.}$): 31.05

Water Column ($\pm 0.1\text{ft.}$): 19.97

Casing Volume ($\pm 0.1\text{gal.}$): 3.25

Purge Method (*pump & type, bailer & type, etc.*): Grundfos

Purge Start Time: 1205

Purge End Time: 1210 (*Note: Sample must be collected
within 24 hours of purge time*)

Volume Purged: 13.00

FIELD PARAMETER LOG

Purge Volume (gallons)	pH (std. units ± 0.1)	Specific Conductivity ($\mu\text{m/cm}$ to 3 sig. digits)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)
3.25	7.2	1350	16.1
6.50	7.3	1440	17.3
9.75	7.3	1470	17.7
13.00	7.3	1488	17.5
Acceptance Criteria	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$

Sample Date: 12/14/2016

Sample Time: 1210

Weather: Cold and Clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Grundfos

Sample Appearance: Clear

Sampler (*print name*): Dane Kaylor

Date: 12/14/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

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Date: 12/14/2016

Sample Location ID: T-67

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form

DK

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)

DK

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)

DK

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO₃

DK

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)

N/A

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed

DK

Field Parameter Form completed per EPM-SAP-111

DK

Used filters collected and bagged for HP screening

DK

All equipment decontaminated per EPM-SAP-107

DK

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-68-9.2

Purge Date: 12/14/2016

Depth to Water ($\pm 0.1\text{ft.}$): 10.71

Well Depth ($\pm 0.1\text{ft.}$): 30.05

Water Column ($\pm 0.1\text{ft.}$): 19.34

Casing Volume ($\pm 0.1\text{gal.}$): 3.15

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 0817

Purge End Time: 0827 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 0.60

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/kg)	ORP (mV)	Turbidity (NTU)
400	0822	7.1	810	12.0	1.42	-29.2	371
400	0824	7.1	810	12.1	0.93	-36.5	92.3
400	0826	7.1	810	12.0	0.89	-38.5	44.7
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/14/2016

Sample Time: 0827

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/14/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/14/2016

Sample Location ID: T-68-9.2

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-68-11.2

Purge Date: 12/14/2016

Depth to Water ($\pm 0.1\text{ft.}$): 10.71

Well Depth ($\pm 0.1\text{ft.}$): 30.05

Water Column ($\pm 0.1\text{ft.}$): 19.34

Casing Volume ($\pm 0.1\text{gal.}$): 3.15

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 0830

Purge End Time: 0840 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 0.50

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/kg)	ORP (mV)	Turbidity (NTU)
350	0835	7.1	960	12.3	0.59	-72.5	OOR
350	0837	7.0	990	12.5	0.45	-76.7	892
350	0839	7.1	1010	12.6	0.34	-80.3	164
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/14/2016

Sample Time: 0840

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/14/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/14/2016

Sample Location ID: T-68-11.2

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples property labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-68-13.2 + DUP

Purge Date: 12/14/2016

Depth to Water ($\pm 0.1\text{ft.}$): 10.71

Well Depth ($\pm 0.1\text{ft.}$): 30.05

Water Column ($\pm 0.1\text{ft.}$): 19.34

Casing Volume ($\pm 0.1\text{gal.}$): 3.15

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 0845

Purge End Time: 0855 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 2.00

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/kg)	ORP (mV)	Turbidity (NTU)
500	0850	7.0	1070	15.5	0.22	-44.5	75.9
500	0852	7.0	1130	16.2	0.40	-43.2	20.3
500	0854	7.0	1140	16.4	0.24	-36.1	14.5
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/14/2016

Sample Time: 0855

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/14/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/14/2016

Sample Location ID: T-68-13.2 + DUP

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	KF
--	----

Post-Sampling

Samples property labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-68-15.2

Purge Date: 12/14/2016

Depth to Water ($\pm 0.1\text{ft.}$): 10.71

Well Depth ($\pm 0.1\text{ft.}$): 30.05

Water Column ($\pm 0.1\text{ft.}$): 19.34

Casing Volume ($\pm 0.1\text{gal.}$): 3.15

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 0900

Purge End Time: 0907 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 0.75

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/kg)	ORP (mV)	Turbidity (NTU)
500	0903	7.0	1210	16.4	1.07	-30.3	190
500	0905	7.0	1220	16.7	0.53	-41.0	114
500	0907	7.0	1230	16.8	0.32	-53.3	23.0
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/14/2016

Sample Time: 0907

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/14/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

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Date: 12/14/2016

Sample Location ID: T-68-15.2

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-68-17.2

Purge Date: 12/14/2016

Depth to Water ($\pm 0.1\text{ft.}$): 10.71

Well Depth ($\pm 0.1\text{ft.}$): 30.05

Water Column ($\pm 0.1\text{ft.}$): 19.34

Casing Volume ($\pm 0.1\text{gal.}$): 3.15

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 0910

Purge End Time: 0917 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 600 ml

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/kg)	ORP (mV)	Turbidity (NTU)
100	0916	7.1	2360	7.0	4.15	33.4	OOR
NO FLOW							
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/14/2016

Sample Time: 0917

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/14/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

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Date: 12/14/2016

Sample Location ID: T-68-17.2

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples property labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-68-19.2

Purge Date: 12/14/2016

Depth to Water ($\pm 0.1\text{ft.}$): 10.71

Well Depth ($\pm 0.1\text{ft.}$): 30.05

Water Column ($\pm 0.1\text{ft.}$): 19.34

Casing Volume ($\pm 0.1\text{gal.}$): 3.15

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 0925

Purge End Time: 0935 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 600 ml

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/kg)	ORP (mV)	Turbidity (NTU)
100	0930	7.4	2550	8.5	3.71	-80.3	OOR
NO FLOW	0935						
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/14/2016

Sample Time: 0935

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/14/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

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Date: 12/14/2016

Sample Location ID: T-68-19.2

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-68-21.2

Purge Date: 12/14/2016

Depth to Water ($\pm 0.1\text{ft.}$): 10.71

Well Depth ($\pm 0.1\text{ft.}$): 30.05

Water Column ($\pm 0.1\text{ft.}$): 19.34

Casing Volume ($\pm 0.1\text{gal.}$): 3.15

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 0940

Purge End Time: 0950 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 600 ml

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/kg)	ORP (mV)	Turbidity (NTU)
150	0945	7.3	4530	9.3	2.83	-201.8	OOR
150	0948	7.2	4580	9.6	1.48	-234.6	OOR
150	0950	7.2	4800	9.8	1.31	-244.6	731
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/14/2016

Sample Time: 0950

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/14/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/14/2016

Sample Location ID: T-68-21.2

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples property labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-68-23.2

Purge Date: 12/14/2016

Depth to Water ($\pm 0.1\text{ft.}$): 10.71

Well Depth ($\pm 0.1\text{ft.}$): 30.05

Water Column ($\pm 0.1\text{ft.}$): 19.34

Casing Volume ($\pm 0.1\text{gal.}$): 3.15

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 0955

Purge End Time: 1005 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 600 ml

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/kg)	ORP (mV)	Turbidity (NTU)
100	1005	7.3	4060	7.9	2.66	-189.4	OOR
NO FLOW							
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/14/2016

Sample Time: 1005

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/14/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/14/2016

Sample Location ID: T-68-23.2

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-68-25.2

Purge Date: 12/14/2016

Depth to Water ($\pm 0.1\text{ft.}$): 10.71

Well Depth ($\pm 0.1\text{ft.}$): 30.05

Water Column ($\pm 0.1\text{ft.}$): 19.34

Casing Volume ($\pm 0.1\text{gal.}$): 3.15

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1010

Purge End Time: 1017 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 850 ml

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/kg)	ORP (mV)	Turbidity (NTU)
<50 // GRAB	1017	--	--	--	--	--	--
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/14/2016

Sample Time: 1017

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/14/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/14/2016

Sample Location ID: T-68-25.2

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	N/A
--	-----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	N/A
---	-----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-68-26.4

Purge Date: 12/14/2016

Depth to Water ($\pm 0.1\text{ft.}$): 10.71

Well Depth ($\pm 0.1\text{ft.}$): 30.05

Water Column ($\pm 0.1\text{ft.}$): 19.34

Casing Volume ($\pm 0.1\text{gal.}$): 3.15

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1027

Purge End Time: 1042 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 850 ml

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/kg)	ORP (mV)	Turbidity (NTU)
130	1036	7.3	3710	9.7	4.20	-69.8	OOR
130	1039	7.2	3840	10.0	3.19	-80.2	OOR
130	1042	7.2	3700	9.7	2.43	-86.4	OOR
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/14/2016

Sample Time: 1042

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/14/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/14/2016

Sample Location ID: T-68-26.4

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

**CIMARRON ENVIRONMENTAL RESPONSE TRUST
FIELD PARAMETER FORM**

Sample Location: T-68

Purge Date: 12/14/2016

Depth to Water ($\pm 0.1\text{ft.}$): 10.71

Well Depth ($\pm 0.1\text{ft.}$): 30.05

Water Column ($\pm 0.1\text{ft.}$): 19.34

Casing Volume ($\pm 0.1\text{gal.}$): 3.15

Purge Method (*pump & type, bailer & type, etc.*): Grundfos

Purge Start Time: 0750

Purge End Time: 0755 (*Note: Sample must be collected
within 24 hours of purge time*)

Volume Purged: 12.60

FIELD PARAMETER LOG

Purge Volume (gallons)	pH (std. units ± 0.1)	Specific Conductivity ($\mu\text{m/cm}$ to 3 sig. digits)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)
3.15	7.3	1805	17.3
6.30	7.3	1745	17.3
9.45	7.3	1713	17.8
12.60	7.3	1691	18.6
Acceptance Criteria	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$

Sample Date: 12/14/2016

Sample Time: 0755

Weather: Cold and Clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Grundfos

Sample Appearance: Clear

Sampler (*print name*): Dane Kaylor

Date: 12/14/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/14/2016

Sample Location ID: T-68

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form

DK

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)

DK

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)

DK

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO₃

DK

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)

N/A

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed

DK

Field Parameter Form completed per EPM-SAP-111

DK

Used filters collected and bagged for HP screening

DK

All equipment decontaminated per EPM-SAP-107

DK

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-84-6.9

Purge Date: 12/13/2016

Depth to Water ($\pm 0.1\text{ft.}$): 10.37

Well Depth ($\pm 0.1\text{ft.}$): 29.85

Water Column ($\pm 0.1\text{ft.}$): 19.48

Casing Volume ($\pm 0.1\text{gal.}$): 3.17

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1328

Purge End Time: 1340 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 0.50

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
200	1335	7.2	1310	8.8	12.05	95.0	343
	1337	7.1	900	7.9	12.06	200.8	154
	1339	7.2	840	7.5	12.20	166.2	42.6
	1340	7.1	810	7.8	12.14	154.3	23.4
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/13/2016

Sample Time: 1340

Weather: Cold and windy

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/13/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/13/2016

Sample Location ID: T-84-6.9

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-84-8.9 + DUP

Purge Date: 12/13/2016

Depth to Water ($\pm 0.1\text{ft.}$): 10.37

Well Depth ($\pm 0.1\text{ft.}$): 29.85

Water Column ($\pm 0.1\text{ft.}$): 19.48

Casing Volume ($\pm 0.1\text{gal.}$): 3.17

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1352

Purge End Time: 1403 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 1.25

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
600	1356	7.2	710	15.6	0.47	126.8	OOR
	1359	7.2	700	15.7	0.27	47.5	259
	1403	7.2	700	15.7	0.24	23.5	106
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/13/2016

Sample Time: 1403

Weather: Cold and windy

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/13/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/13/2016

Sample Location ID: T-84-8.9 + DUP

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	KF
--	----

Post-Sampling

Samples property labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST

FIELD PARAMETER FORM

Sample Location: T-84-10.9

Purge Date: 12/13/2016

Depth to Water ($\pm 0.1\text{ft.}$): 10.37

Well Depth ($\pm 0.1\text{ft.}$): 29.85

Water Column ($\pm 0.1\text{ft.}$): 19.48

Casing Volume ($\pm 0.1\text{gal.}$): 3.17

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1406

Purge End Time: 1415 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 1.00

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
500	1411	7.2	780	16.2	1.47	-46.8	469
	1413	7.2	790	16.3	0.72	-36.5	157
	1415	7.2	800	16.3	0.38	-45.3	79.3
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/13/2016

Sample Time: 1415

Weather: Cold and windy

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/13/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/13/2016

Sample Location ID: T-84-10.9

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-84-12.9

Purge Date: 12/13/2016

Depth to Water ($\pm 0.1\text{ft.}$): 10.37

Well Depth ($\pm 0.1\text{ft.}$): 29.85

Water Column ($\pm 0.1\text{ft.}$): 19.48

Casing Volume ($\pm 0.1\text{gal.}$): 3.17

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1420

Purge End Time: 1429 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 1.00

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
600	1424	7.1	1040	15.6	1.01	-21.0	327
	1426	7.1	1080	15.8	0.61	-18.5	90.6
	1429	7.1	1090	15.5	0.42	-25.5	33.2
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/13/2016

Sample Time: 1429

Weather: Cold and windy

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/13/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/13/2016

Sample Location ID: T-84-12.9

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO3	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples property labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-84-14.9

Purge Date: 12/13/2016

Depth to Water ($\pm 0.1\text{ft.}$): 10.37

Well Depth ($\pm 0.1\text{ft.}$): 29.85

Water Column ($\pm 0.1\text{ft.}$): 19.48

Casing Volume ($\pm 0.1\text{gal.}$): 3.17

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1430

Purge End Time: 1438 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 0.60

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
500	1434	7.0	1490	15.6	1.50	-27.7	OOR
	1436	7.0	1540	16.0	0.76	-40.0	103
	1438	7.0	1550	16.1	0.37	-44.1	99.9
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/13/2016

Sample Time: 1438

Weather: Cold and windy

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/13/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/13/2016

Sample Location ID: T-84-14.9

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-84-16.9

Purge Date: 12/13/2016

Depth to Water ($\pm 0.1\text{ft.}$): 10.37

Well Depth ($\pm 0.1\text{ft.}$): 29.85

Water Column ($\pm 0.1\text{ft.}$): 19.48

Casing Volume ($\pm 0.1\text{gal.}$): 3.17

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1442

Purge End Time: 1450 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 1.00

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
500	1445	7.0	2320	16.1	0.83	5.1	588
	1447	7.0	2370	16.0	0.32	8.1	68
	1449	7.0	2450	15.9	0.37	-44.1	43.6
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/13/2016

Sample Time: 1450

Weather: Cold and windy

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/13/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/13/2016

Sample Location ID: T-84-16.9

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-84-18.9

Purge Date: 12/13/2016

Depth to Water ($\pm 0.1\text{ft.}$): 10.37

Well Depth ($\pm 0.1\text{ft.}$): 29.85

Water Column ($\pm 0.1\text{ft.}$): 19.48

Casing Volume ($\pm 0.1\text{gal.}$): 3.17

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1454

Purge End Time: 1505 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 0.25

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
140	1500	7.0	3970	10.7	1.28	-41.1	401
	1503	7.1	4250	9.8	1.04	-41.4	98.4
	1505	7.1	4310	9.8	1.16	-36.8	66.3
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/13/2016

Sample Time: 1505

Weather: Cold and windy

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/13/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/13/2016

Sample Location ID: T-84-18.9

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-84-20.9

Purge Date: 12/13/2016

Depth to Water ($\pm 0.1\text{ft.}$): 10.37

Well Depth ($\pm 0.1\text{ft.}$): 29.85

Water Column ($\pm 0.1\text{ft.}$): 19.48

Casing Volume ($\pm 0.1\text{gal.}$): 3.17

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1512

Purge End Time: 1520 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 0.40

FIELD PARAMETER LOG

Flow Rate (<i>ml/min</i>)	Time	pH (<i>std. units ± 0.1</i>)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (<i>mg/L</i>)	ORP (<i>mV</i>)	Turbidity (<i>NTU</i>)
150	1515	7.3	3450	9.5	2.87	-60.4	OOR
	1517	7.3	3460	9.6	13.9	-83.1	OOR
	1520	7.3	3680	9.1	0.88	-203.3	66.3
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/13/2016

Sample Time: 1520

Weather: Cold and windy

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/13/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

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Date: 12/13/2016

Sample Location ID: T-84-20.9

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-84-22.9

Purge Date: 12/13/2016

Depth to Water ($\pm 0.1\text{ft.}$): 10.37

Well Depth ($\pm 0.1\text{ft.}$): 29.85

Water Column ($\pm 0.1\text{ft.}$): 19.48

Casing Volume ($\pm 0.1\text{gal.}$): 3.17

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1528

Purge End Time: 1540 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 0.25

FIELD PARAMETER LOG

Flow Rate (<i>ml/min</i>)	Time	pH (<i>std. units ± 0.1</i>)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (<i>mg/L</i>)	ORP (<i>mV</i>)	Turbidity (<i>NTU</i>)
100	1534	7.3	3620	7.5	2.64	-8.7	OOR
	1537	7.3	3630	6.5	1.40	-26.8	290
	1540	7.3	3720	6.4	1.36	-125.7	98.2
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/13/2016

Sample Time: 1540

Weather: Cold and windy

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/13/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/13/2016

Sample Location ID: T-84-22.9

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-84-24.9

Purge Date: 12/13/2016

Depth to Water ($\pm 0.1\text{ft.}$): 10.37

Well Depth ($\pm 0.1\text{ft.}$): 29.85

Water Column ($\pm 0.1\text{ft.}$): 19.48

Casing Volume ($\pm 0.1\text{gal.}$): 3.17

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1547

Purge End Time: 1555 (Note: Sample must be collected within 24 hours of purge time)

Volume Purged: N/A

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
NO FLOW							
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/13/2016

Sample Time: N/A

Weather: Cold and windy

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/13/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/13/2016

Sample Location ID: T-84-24.9

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form

KF

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)

KF

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)

KF

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO₃

N/A

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)

N/A

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed

N/A

Field Parameter Form completed per EPM-SAP-111

N/A

Used filters collected and bagged for HP screening

N/A

All equipment decontaminated per EPM-SAP-107

N/A

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-84-26.9

Purge Date: 12/13/2016

Depth to Water ($\pm 0.1\text{ft.}$): 10.37

Well Depth ($\pm 0.1\text{ft.}$): 29.85

Water Column ($\pm 0.1\text{ft.}$): 19.48

Casing Volume ($\pm 0.1\text{gal.}$): 3.17

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1557

Purge End Time: 1600 (Note: Sample must be collected within 24 hours of purge time)

Volume Purged: N/A

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
NO FLOW							
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/13/2016

Sample Time: N/A

Weather: Cold and windy

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/13/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/13/2016

Sample Location ID: T-84-26.9

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form

KF

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)

KF

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)

KF

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO₃

N/A

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)

N/A

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed

N/A

Field Parameter Form completed per EPM-SAP-111

N/A

Used filters collected and bagged for HP screening

N/A

All equipment decontaminated per EPM-SAP-107

N/A

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-84

Purge Date: 12/13/2016

Depth to Water ($\pm 0.1\text{ft.}$): 10.37

Well Depth ($\pm 0.1\text{ft.}$): 29.85

Water Column ($\pm 0.1\text{ft.}$): 19.48

Casing Volume ($\pm 0.1\text{gal.}$): 3.17

Purge Method (*pump & type, bailer & type, etc.*): Grundfos

Purge Start Time: 1305

Purge End Time: 1310 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 12.68

FIELD PARAMETER LOG

Purge Volume (gallons)	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)
3.17	7.1	2060	14.0
6.34	7.1	2030	16.8
9.51	7.1	2040	18.0
12.68	7.1	2100	17.9
Acceptance Criteria	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$

Sample Date: 12/13/2016

Sample Time: 1310

Weather: Cold and windy

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Grundfos

Sample Appearance: Clear

Sampler (*print name*): Dane Kaylor

Date: 12/13/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/13/2016

Sample Location ID: T-84

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	DK
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	DK
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	DK
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	DK
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	DK
---	----

Field Parameter Form completed per EPM-SAP-111	DK
--	----

Used filters collected and bagged for HP screening	DK
--	----

All equipment decontaminated per EPM-SAP-107	DK
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-97 - 11.7

Purge Date: 12/12/16

Depth to Water (± 0.1 ft.): 13.2' BTOL

Well Depth (± 0.1 ft.): 32.5' BTOL

Water Column (± 0.1 ft.): 19.3'

Casing Volume (± 0.1 gal.): 3.1 gallons

Purge Method (pump & type, bailer & type, etc.): peristaltic Pump

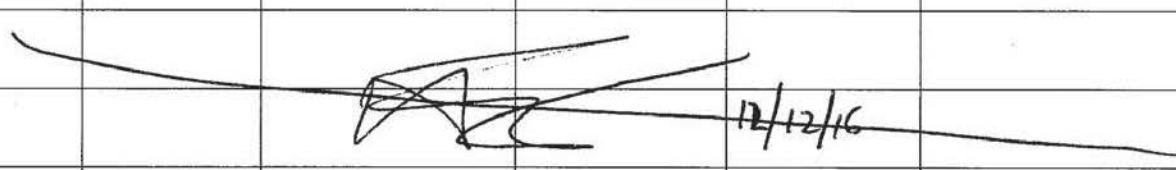
Purge Start Time: 1130

Purge End Time: 1142

(Note: Sample must be collected within 24 hours of purge time)

Volume Purged: 1.0 gal

FIELD PARAMETER LOG

	Purge Volume (gallons)	pH (std. units ± 0.1)	Specific Conductivity (μ m/cm to 3 sig. digits)	Temperature ($^{\circ}$ C $\pm 0.1^{\circ}$)	Dissolved Oxygen (DO) (mg/l ± 0.1)	Oxidation/Reduction Potential (ORP) (mV ± 1)	Turb. (NTU)	Flow Rate (ml/min)
1130	< 0.25	7.29	0.76	12.0	4.27	185.9	—	200
1135	~ 0.4	7.25	0.88	13.5	27.9 %	140.4	10.9	200
1138	0.5	7.27	0.87	13.1	2.25	156.3		200
1140	0.6	7.26	0.89	13.2	2.07	165.6	6.54	200
								
Acceptance Criteria	3 samples ± 0.1 unit	3 samples ± 10 %	3 samples ± 10 %	3 samples ± 10 %	3 samples ± 10 %	3 samples ± 10 %		

Sample Date: 12/12/16

Sample Time: 1143 (T-97-11.7)

Weather: 50's, clear

Sample Method (bailer (type), pump (type), scoop (type), etc.):

Peri - Pump

Sample Appearance: clear

Sampler (print name): Kevin Fagan

Date: 12/12/16

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-97-13.7'

Purge Date: 12/12/16

Depth to Water (± 0.1 ft.): N/A

Well Depth (± 0.1 ft.): N/A

Water Column (± 0.1 ft.): N/A

Casing Volume (± 0.1 gal.): N/A

Purge Method (pump & type, bailer & type, etc.): Peri-Pump

Purge Start Time: 1151

Purge End Time: 1205

(Note: Sample must be collected within 24 hours of purge time)

Volume Purged: 1.5 gallons

FIELD PARAMETER LOG

Purge Volume (gallons)	pH (std. units ± 0.1)	Specific Conductivity ($\mu S/cm$ to 3 sig. digits)	Temperature ($^{\circ}C \pm 0.1^{\circ}$)	Dissolved Oxygen (DO) (mg/l ± 0.1)	Oxidation/Reduction Potential (ORP) (mV ± 1)	Flow Rate (mL/min)
1151	—	—	—	—	—	200
1155	0.8	0.78	13.9	3.39	124.3	841
1158	1.2	0.74	14.7	3.84	133.0	202
1201	2.0	0.72	14.8	4.14	133.5	90.7
1204	2.3	0.72	14.8	4.29	136.2	53.1
Signature <u>12/12/16</u>						
Acceptance Criteria	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	3 samples $\pm 10\%$	3 samples $\pm 10\%$	

Sample Date: 12/12/16

Sample Time: 1205 (T-97-13.7')

Weather: clear, 50's

Sample Method (bailer (type), pump (type), scoop (type), etc.):

Peri-Pump

Sample Appearance: clear

Sampler (print name): Kevin Fagan

Date: 12/12/16

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-97-15.7

Purge Date: 12/12/16

Depth to Water (± 0.1 ft.): N/A

Well Depth (± 0.1 ft.): N/A

Water Column (± 0.1 ft.): N/A

Casing Volume (± 0.1 gal.): N/A

Purge Method (pump & type, bailer & type, etc.): Peri-pump

Purge Start Time: 1210

Purge End Time: 1227

(Note: Sample must be collected within 24 hours of purge time)

Volume Purged: 1.4

FIELD PARAMETER LOG

	Purge Volume (gallons)	pH (std. units ± 0.1)	Specific Conductivity (μ mS/cm to 3 sig. digits)	Temperature ($^{\circ}$ C $\pm 0.1^{\circ}$)	Dissolved Oxygen (DO) (mg/l ± 0.1)	Oxidation/Reduction Potential (ORP) (mV ± 1)	Turb. (NTU)	Flow Rate (ml/min)
1210	—	—	—	—	—	—	—	200
1217	0.7	7.34	0.69	12.5	0.77	83.4	0.02	200
1220	0.9	7.30	0.67	12.8	0.67	15.6	0.02	200
1223	1.1	7.31	0.68	12.6	0.51	-4.3	508	200
1226	1.3	7.31	0.67	12.1	0.29	-16.0	213	200
Signature: [Signature] 12/12/16								
Acceptance Criteria	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	3 samples $\pm 10\%$	3 samples $\pm 10\%$	3 samples $\pm 10\%$		

Sample Date: 12/12/16

Sample Time: 1228

Weather: Clear, 50's

Sample Method (bailer (type), pump (type), scoop (type), etc.):

Peri-Pump

Sample Appearance: Clear

Sampler (print name): Kevin Fugon

Date: 12/12/16

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-97-17.7

Purge Date: 12/12/16

Depth to Water (± 0.1 ft.): N/A

Well Depth (± 0.1 ft.): N/A

Water Column (± 0.1 ft.): N/A

Casing Volume (± 0.1 gal.): N/A

Purge Method (pump & type, bailer & type, etc.): Peri-pump

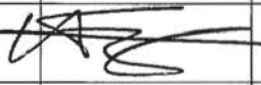
Purge Start Time: 1233

Purge End Time: 1247

(Note: Sample must be collected within 24 hours of purge time)

Volume Purged: 1.3

FIELD PARAMETER LOG

	Purge Volume (gallons)	pH (std. units ± 0.1)	Specific Conductivity ($\mu\text{m/cm}$ to 3 sig. digits)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	Dissolved Oxygen (DO) (mg/l ± 0.1)	Oxidation/Reduction Potential (ORP) (mV ± 1)	T_{urb} (m^2/min)
1233	-	-	-	-	-	-	-
1238	0.25	7.31	0.70	15.0	1.25	-100.6	916
1241	0.5	7.32	0.71	14.8	0.29	-112.4	149
1244	1.0	7.32	0.71	14.7	0.16	-120.5	49.7
1247	1.3	7.31	0.71	14.9	0.12	-127.3	30.1
							
Acceptance Criteria	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	3 samples $\pm 10\%$	3 samples $\pm 10\%$	3 samples $\pm 10\%$	

Flow Rate:
(m^3/min)

~500

~500

~500

~400

~400

Sample Date: 12/12/16

Sample Time: 1248

Weather: clear, 50's

Sample Method (bailer (type), pump (type), scoop (type), etc.):

Peri-pump

Sample Appearance: clear

Sampler (print name): Kevin Fagan

Date: 12/12/16

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-97-19.7

Purge Date: 12/12/16

Depth to Water (± 0.1 ft.): N/A

Well Depth (± 0.1 ft.): N/A

Water Column (± 0.1 ft.): N/A

Casing Volume (± 0.1 gal.): N/A

Purge Method (pump & type, bailer & type, etc.): Perist-pump


Purge Start Time: 1252

Purge End Time: 1306

(Note: Sample must be collected within 24 hours of purge time)

Volume Purged: 0.7

FIELD PARAMETER LOG

	Purge Volume (gallons)	pH (std. units ± 0.1)	Specific Conductivity (μ m/cm to 3 sig. digits)	Temperature ($^{\circ}$ C $\pm 0.1^{\circ}$)	Dissolved Oxygen (DO) (mg/l ± 0.1)	Oxidation/Reduction Potential (ORP) (mV ± 1)	Turb (NTU)	Flow Rate (ml/min)
1252	—	—	—	—	—	—	—	—
1256	0.25	7.32	0.79	11.8	0.71	-40.7	30.1	300
1259	0.4	7.28	0.66	12.2	0.31	-61.7	47.9	300
1302	0.5	7.28	0.67	11.9	0.20	-80.6	68.9	300
1305	0.6	7.28	0.67	11.6	0.19	-87.5	40.7	300
 12/12/16								
Acceptance Criteria	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	3 samples $\pm 10\%$	3 samples $\pm 10\%$	3 samples $\pm 10\%$		

Sample Date: 12/12/16

Sample Time: 1307

Weather: clear, 50's

Sample Method (bailer (type), pump (type), scoop (type), etc.):

Perist-pump

Sample Appearance: clear

Sampler (print name): Kevin Fagan

Date: 12/12/16

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-99-21.7

Purge Date: 12/12/15

Depth to Water (± 0.1 ft.): N/A

Well Depth (± 0.1 ft.): N/A

Water Column (± 0.1 ft.): N/A

Casing Volume (± 0.1 gal.): N/A

Purge Method (pump & type, bailer & type, etc.): Peri-Pump


Purge Start Time: 1211

Purge End Time: 1325

(Note: Sample must be collected within 24 hours of purge time)

Volume Purged: 0.6

FIELD PARAMETER LOG

	Purge Volume (gallons)	pH (std. units ± 0.1)	Specific Conductivity (μ S/cm to 3 sig. digits)	Temperature ($^{\circ}$ C $\pm 0.1^{\circ}$)	Dissolved Oxygen (DO) (mg/l ± 0.1)	Oxidation/Reduction Potential (ORP) (mV ± 1)	Turb. (NTU)	Flow Rate (l/min)
1311	—	—	—	—	—	—	—	—
1316	0.3	7.23	1.08	13.0	0.80	-144.2	777	~300
1319	0.4	7.23	1.13	13.4	0.36	-149.3	185	~300
1322	0.5	7.23	1.14	13.5	0.20	-157.3	68.3	~300
1325	0.6	7.24	1.14	13.5	0.16	-184.3	39.2	~300
 12/12/16								
Acceptance Criteria	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	3 samples $\pm 10\%$	3 samples $\pm 10\%$	3 samples $\pm 10\%$		

Sample Date: 12/12/16

Sample Time: 1327

Weather: clear, 50's

Sample Method (bailer (type), pump (type), scoop (type), etc.):

Peri-Pump

Sample Appearance: clear

Sampler (print name): Kevin Fugate

Date: 12/12/16

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-97-23.7

Purge Date: 12/12/16

Depth to Water (± 0.1 ft.): N/A

Well Depth (± 0.1 ft.): N/A

Water Column (± 0.1 ft.): N/A

Casing Volume (± 0.1 gal.): N/A

Purge Method (pump & type, bailer & type, etc.): Peri pump

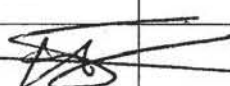
Purge Start Time: 1331

Purge End Time: 1345

(Note: Sample must be collected within 24 hours of purge time)

Volume Purged: ~0.7 gal

FIELD PARAMETER LOG

	Purge Volume (gallons)	pH (std. units ± 0.1)	Specific Conductivity (μ S/cm to 3 sig. digits)	Temperature ($^{\circ}$ C $\pm 0.1^{\circ}$)	Dissolved Oxygen (DO) (mg/l ± 0.1)	Oxidation/Reduction Potential (ORP) (mV ± 1)	Turbidity (NTU)	Flow Rate (ml/min)
1331	—	—	—	—	—	—	—	—
1336	0.25	7.24	1.37	12.4	0.30	-180.1	0.0R	~350
1339	0.4	7.22	1.48	13.6	0.14	-219.2	632	~350
1342	0.5	7.23	1.52	13.4	0.10	-237.4	95.5	~350
1345	0.7	7.23	1.53	13.2	0.10	-239.4	43.3	~350
 12/12/16								
Acceptance Criteria	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	3 samples $\pm 10\%$	3 samples $\pm 10\%$	3 samples $\pm 10\%$		

Sample Date: 12/12/16

Sample Time: 1345

Weather: clear, 50's

Sample Method (bailer (type), pump (type), scoop (type), etc.):

Peri - pump

Sample Appearance: clear

Sampler (print name): Kevin Fugur

Date: 12/12/16

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-97-25.7 Purge Date: 12/12/16

Depth to Water (± 0.1 ft.): N/A Well Depth (± 0.1 ft.): N/A

Water Column (± 0.1 ft.): N/A Casing Volume (± 0.1 gal.): N/A

Purge Method (pump & type, bailer & type, etc.): Peri-pump

Purge Start Time: 1350 Purge End Time: 1402 (Note: Sample must be collected within 24 hours of purge time)

Volume Purged: ~ 0.7

FIELD PARAMETER LOG

	Purge Volume (gallons)	pH (std. units ± 0.1)	Specific Conductivity (μ m/cm to 3 sig. digits)	Temperature ($^{\circ}$ C $\pm 0.1^{\circ}$)	Dissolved Oxygen (DO) (mg/l ± 0.1)	Oxidation/Reduction Potential (ORP) (mV ± 1)	Turb. (NTU)	Flow Rate
1350	—	—	—	—	—	—	—	~ 350
1356	~ 0.3	7.20	2.22	13.5	1.77	-117.2	184	~ 350
1359	~ 0.5	7.22	2.28	12.8	0.41	-128.0	35.7	~ 350
1402	~ 0.7	7.21	2.28	13.1	0.19	-134.5	9.27	~ 350
12/12/16								
Acceptance Criteria	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	3 samples $\pm 10\%$	3 samples $\pm 10\%$	3 samples $\pm 10\%$		

Sample Date: 12/12/16 Sample Time: 1403

Weather: _____

Sample Method (bailer (type), pump (type), scoop (type), etc.):

Peri-pump

Sample Appearance: _____

Sampler (print name): Kevin Fagan Date: 12/12/16

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-97-27.7' Purge Date: 12/12/16

Depth to Water (± 0.1 ft.): N/A Well Depth (± 0.1 ft.): N/A

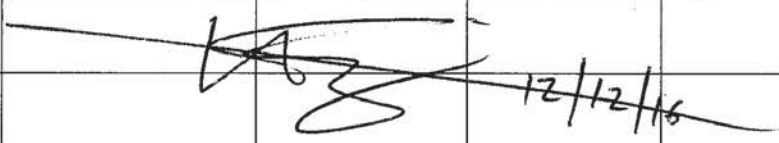
Water Column (± 0.1 ft.): N/A Casing Volume (± 0.1 gal.): N/A

Purge Method (pump & type, bailer & type, etc.): Peri-Pump

Purge Start Time: 1407 Purge End Time: 1419 (Note: Sample must be collected within 24 hours of purge time)

Volume Purged: ~1.0 gal.

FIELD PARAMETER LOG

Purge Volume (gallons)	pH (std. units ± 0.1)	Specific Conductivity (μ m/cm to 3 sig. digits)	Temperature ($^{\circ}$ C $\pm 0.1^{\circ}$)	Dissolved Oxygen (DO) (mg/l ± 0.1)	Oxidation/Reduction Potential (ORP) (mV ± 1)	Turb. (NTU)
1407	—	—	—	—	—	—
1412	~0.3	3.24	15.0	0.09	56.5	305
1415	~0.6	3.31	15.2	0.05	40.3	64.1
1418	~0.9	3.32	15.2	0.03	35.1	21.5
						
Acceptance Criteria	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	3 samples $\pm 10\%$	3 samples $\pm 10\%$	

Flow Rate
(ml/min)

~400

~400

~400

Sample Date: 12/12/16 Sample Time: 1420

Weather: clear, 50's

Sample Method (bailer (type), pump (type), scoop (type), etc.):

Peri-Pump

Sample Appearance: clear

Sampler (print name): Kevin Fagan Date: 12/12/16

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-51-9.1

Purge Date: 12/12/15

Depth to Water (± 0.1 ft.): 11.6 (measured in well)

Well Depth (± 0.1 ft.): 21.80 (measured in well)

Water Column (± 0.1 ft.): N/A

Casing Volume (± 0.1 gal.): N/A

Purge Method (pump & type, bailer & type, etc.): Peri-pump


Purge Start Time: 1520

Purge End Time: 1535

(Note: Sample must be collected within 24 hours of purge time)

Volume Purged: ~2.0 gal

FIELD PARAMETER LOG

Purge Volume (gallons)	pH (std. units ± 0.1)	Specific Conductivity (μ m/cm to 3 sig. digits)	Temperature ($^{\circ}$ C $\pm 0.1^{\circ}$)	Dissolved Oxygen (DO) (mg/l ± 0.1)	Oxidation/Reduction Potential (ORP) (mV ± 1)	Turb. (NTU)	Flow Rate (ml/min)
1520	—	—	—	—	—	—	—
1525	0.6	7.53	1.12	15.8	7.16	104.3	284 500
1528	1.0	7.52	0.78	16.1	6.71	140.9	53.6 500
1531	1.4	7.51	0.74	15.9	6.74	142.2	31.5 500
1534	1.8	7.51	0.74	16.1	6.71	140.8	— 500
							
Acceptance Criteria	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	3 samples $\pm 10\%$	3 samples $\pm 10\%$	3 samples $\pm 10\%$	

Sample Date: 12/12/15

Sample Time: 1536

Weather: Clear, 50's

Sample Method (bailer (type), pump (type), scoop (type), etc.):

Peri-pump

Sample Appearance: Clear

Sampler (print name): Kevin Fagan

Date: 12/12/15

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-51-11.1

Purge Date: 12/12/15

Depth to Water (± 0.1 ft.): N/A

Well Depth (± 0.1 ft.): N/A

Water Column (± 0.1 ft.): N/A

Casing Volume (± 0.1 gal.): N/A

Purge Method (pump & type, bailer & type, etc.): Peri-pump


Purge Start Time: 1542

Purge End Time: 1553

(Note: Sample must be collected within 24 hours of purge time)

Volume Purged: 1.5

FIELD PARAMETER LOG

	Purge Volume (gallons)	pH (std. units ± 0.1)	Specific Conductivity (μ m/cm to 3 sig. digits)	Temperature ($^{\circ}$ C $\pm 0.1^{\circ}$)	Dissolved Oxygen (DO) (mg/l ± 0.1)	Oxidation/Reduction Potential (ORP) (mV ± 1)	Turb (NTU)	Flow Rate (ml/min)
1542	—	—	—	—	—	—	—	500
1547	0.5	7.51 F	0.74 F	14.8 F	5.59 F	151.1 F	—	500
1548	0.7	7.48	0.77	16.7	6.05	132.5	718	500
1551	1.25	7.48	0.77	16.7	6.12	131.9	174	500
1553	1.4	7.48	0.77	16.7	6.10	128.5	103	500
 12/12/16								
Acceptance Criteria	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	3 samples $\pm 10\%$	3 samples $\pm 10\%$	3 samples $\pm 10\%$		

Sample Date: 12/12/16

Sample Time: 1554

Weather: clear, 50's

Sample Method (bailer (type), pump (type), scoop (type), etc.):

Peri-pump

Sample Appearance: clear

Sampler (print name): Kevin Fager

Date: 12/12/15

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-51-13.1

Purge Date: 12/12/16

Depth to Water (± 0.1 ft.): N/A

Well Depth (± 0.1 ft.): N/A

Water Column (± 0.1 ft.): N/A

Casing Volume (± 0.1 gal.): N/A

Purge Method (pump & type, bailer & type, etc.): Peri-Pump

Purge Start Time: 1558

Purge End Time: 1510

(Note: Sample must be collected within 24 hours of purge time)

Volume Purged: 1.5

FIELD PARAMETER LOG

Purge Volume (gallons)	pH (std. units ± 0.1)	Specific Conductivity (μ S/cm to 3 sig. digits)	Temperature ($^{\circ}$ C $\pm 0.1^{\circ}$)	Dissolved Oxygen (DO) (mg/l ± 0.1)	Oxidation/Reduction Potential (ORP) (mV ± 1)	Turb. (NTU)
1558	—	—	—	—	—	—
1603	1.0	7.33	0.81	16.5	1.94	55.8
1606	1.25	7.33	0.81	16.7	1.75	56.7
1609	1.5	7.33	0.81	16.8	1.62	55.6
12/12/16						
Acceptance Criteria	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	3 samples $\pm 10\%$	3 samples $\pm 10\%$	

Flow Rate
(ml/min)

500

500

500

500

Sample Date: 12/12/16

Sample Time: 1511

Weather: Clear, 50's

Sample Method (bailer (type), pump (type), scoop (type), etc.):

Peri-Pump

Sample Appearance: Clear

Sampler (print name): Kerim Ferguson

Date: 12/12/16

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-51-15.1

Purge Date: 12/12/16

Depth to Water (± 0.1 ft.): N/A

Well Depth (± 0.1 ft.): N/A

Water Column (± 0.1 ft.): N/A

Casing Volume (± 0.1 gal.): N/A

Purge Method (pump & type, bailer & type, etc.): Peri-pump

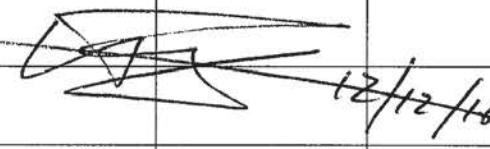
Purge Start Time: 1515

Purge End Time: 1527

(Note: Sample must be collected within 24 hours of purge time)

Volume Purged: 1.8 gal

FIELD PARAMETER LOG

	Purge Volume (gallons)	pH (std. units ± 0.1)	Specific Conductivity ($\mu S/cm$ to 3 sig. digits)	Temperature ($^{\circ}C \pm 0.1^{\circ}$)	Dissolved Oxygen (DO) (mg/l ± 0.1)	Oxidation/Reduction Potential (ORP) (mV ± 1)	Turbidity (NTU)	Flow Rate (ml/min)
1515	—	—	—	—	—	—	—	600
1620	—	7.23	0.84	17.1	0.25	0.7	—	600
1623	1.0	7.23	0.85	17.0	0.24	-4.8	81.3	600
1626	1.7	7.22	0.85	16.9	0.23	-44.5	—	600
								
Acceptance Criteria	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	3 samples $\pm 10\%$	3 samples $\pm 10\%$	3 samples $\pm 10\%$		

Sample Date: 12/12/16

Sample Time: 1528

Weather: clear, 50's

Sample Method (bailer (type), pump (type), scoop (type), etc.):

Peri-pump

Sample Appearance: clear

Sampler (print name): Helen Fager

Date: 12/12/16

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-51-17.1

Purge Date: 12/12/15

Depth to Water (± 0.1 ft.): N/A

Well Depth (± 0.1 ft.): N/A

Water Column (± 0.1 ft.): N/A

Casing Volume (± 0.1 gal.): N/A

Purge Method (pump & type, bailer & type, etc.): Peri - Pump

Purge Start Time: 1631

Purge End Time: 1644

(Note: Sample must be collected within 24 hours of purge time)

Volume Purged: 0.9

FIELD PARAMETER LOG

	Purge Volume (gallons)	pH (std. units ± 0.1)	Specific Conductivity ($\mu\text{m}/\text{cm}$ to 3 sig. digits)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	Dissolved Oxygen (DO) (mg/l ± 0.1)	Oxidation/Reduction Potential (ORP) (mV ± 1)	Turbidity (NTU)
1631	—	—	—	—	—	—	—
1635	—	7.25	0.89	16.3	0.96	-93.9	59.7
1638	0.5	7.24	0.89	16.1	0.18	-102.5	22.7
1641	0.7	7.24	0.89	15.7	0.11	-117.9	14.3
1644	0.9	7.25	0.89	15.5	0.16	-129.9	—
12/12/16							
Acceptance Criteria	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	3 samples $\pm 10\%$	3 samples $\pm 10\%$	3 samples $\pm 10\%$	3 samples $\pm 10\%$

Flow Rate
(ml/min)
500

500

500

500

500

Sample Date: 12/12/15

Sample Time: 1645

Weather: Clear, 50's

Sample Method (bailer (type), pump (type), scoop (type), etc.):

Clear 14 Peri - Pump

Sample Appearance: Clear

Sampler (print name): Kevin Fagan

Date: 12/12/15

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-51-19.1

Purge Date: 12/12/16

Depth to Water (± 0.1 ft.): N/A

Well Depth (± 0.1 ft.): N/A

Water Column (± 0.1 ft.): N/A

Casing Volume (± 0.1 gal.): N/A

Purge Method (pump & type, bailer & type, etc.): Peri-pump

Purge Start Time: 1650

Purge End Time: 1701

(Note: Sample must be collected within 24 hours of purge time)

Volume Purged: ~ 1.1 gal.

FIELD PARAMETER LOG

Purge Volume (gallons)	pH (std. units ± 0.1)	Specific Conductivity (μ S/cm to 3 sig. digits)	Temperature ($^{\circ}$ C $\pm 0.1^{\circ}$)	Dissolved Oxygen (DO) (mg/l ± 0.1)	Oxidation/Reduction Potential (ORP) (mV ± 1)	Turbidity (NTU)
1650	—	—	—	—	—	—
1655	0.5	1.04	16.4	0.03	-201.6	35.5
1658	0.75	1.04	16.2	0.02	-221.7	20.0
1701	1.01	1.05	16.1	0.02	-218.5	—
12/12/16						
Acceptance Criteria	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	3 samples $\pm 10\%$	3 samples $\pm 10\%$	—

Flow Rate
(ml/min)

600

600

600

600

Sample Date: 12/12/16

Sample Time: 1702

Weather: Clear, 30's

Sample Method (bailer (type), pump (type), scoop (type), etc.):

Peri-pump

Sample Appearance: clear

Sampler (print name): Kevin Fagan

Date: 12/12/16

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-59-7.1 + DUP

Purge Date: 12/13/2016

Depth to Water ($\pm 0.1\text{ft.}$): 9.17

Well Depth ($\pm 0.1\text{ft.}$): 29.13

Water Column ($\pm 0.1\text{ft.}$): 19.96

Casing Volume ($\pm 0.1\text{gal.}$): 3.25

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 0903

Purge End Time: 0918 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 1.40

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units \pm)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/kg)	ORP (mV)	Turbidity (NTU)
500	0909	7.1	730	14.8	2.06	154.1	OOR
500	0911	7.2	740	14.5	2.05	102.8	344
500	0913	7.2	740	15.0	1.91	79.1	127
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	1 sample <10 NTU

Sample Date: 12/13/2016

Sample Time: 0918

Weather: Cold and windy

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/13/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/13/2016

Sample Location ID: T-59-7.1 + DUP

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	DK
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	DK
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	DK
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	DK
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples property labeled and placed in coolers on ice as needed	DK
---	----

Field Parameter Form completed per EPM-SAP-111	DK
--	----

Used filters collected and bagged for HP screening	DK
--	----

All equipment decontaminated per EPM-SAP-107	DK
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-59-9.1

Purge Date: 12/13/2016

Depth to Water ($\pm 0.1\text{ft.}$): 9.17

Well Depth ($\pm 0.1\text{ft.}$): 29.13

Water Column ($\pm 0.1\text{ft.}$): 19.96

Casing Volume ($\pm 0.1\text{gal.}$): 3.25

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 0920

Purge End Time: 0930 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 1.2

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/kg)	ORP (mV)	Turbidity (NTU)
400	0925	7.0	1370	15.2	0.17	28.6	81.6
600	0927	7.0	1380	15.4	0.13	18.8	11.6
600	0929	7.0	1380	15.4	0.15	13.1	9.61
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	1 sample <10 NTU

Sample Date: 12/13/2016

Sample Time: 0930

Weather: Cold and windy

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/13/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/13/2016

Sample Location ID: T-59-9.1

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-59-11.1

Purge Date: 12/13/2016

Depth to Water ($\pm 0.1\text{ft.}$): 9.17

Well Depth ($\pm 0.1\text{ft.}$): 29.13

Water Column ($\pm 0.1\text{ft.}$): 19.96

Casing Volume ($\pm 0.1\text{gal.}$): 3.25

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 0933

Purge End Time: 0943 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 0.75

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/kg)	ORP (mV)	Turbidity (NTU)
400	0937	7.1	1270	14.0	2.18	33.8	160
400	0939	7.1	1270	14.5	0.58	30.4	26.6
400	0943	7.0	1290	13.9	0.31	25.3	
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/13/2016

Sample Time: 0943

Weather: Cold and windy

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/13/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/13/2016

Sample Location ID: T-59-11.1

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-59-13.1

Purge Date: 12/13/2016

Depth to Water ($\pm 0.1\text{ft.}$): 9.17

Well Depth ($\pm 0.1\text{ft.}$): 29.13

Water Column ($\pm 0.1\text{ft.}$): 19.96

Casing Volume ($\pm 0.1\text{gal.}$): 3.25

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 0948

Purge End Time: 1005 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 0.75

FIELD PARAMETER LOG

Flow Rate (<i>ml/min</i>)	Time	pH (<i>std. units ± 0.1</i>)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (<i>mg/kg</i>)	ORP (<i>mV</i>)	Turbidity (<i>NTU</i>)
60	0957	7.0	1390	6.9	1.70	-25.7	41.7
40	1001	7.0	1400	6.9	1.12	-66.9	26.6
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/13/2016

Sample Time: 1005

Weather: Cold and windy

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/13/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

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Date: 12/13/2016

Sample Location ID: T-59-13.1

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-59-15.1

Purge Date: 12/13/2016

Depth to Water ($\pm 0.1\text{ft.}$): 9.17

Well Depth ($\pm 0.1\text{ft.}$): 29.13

Water Column ($\pm 0.1\text{ft.}$): 19.96

Casing Volume ($\pm 0.1\text{gal.}$): 3.25

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1010

Purge End Time: 1025 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 0.60

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/kg)	ORP (mV)	Turbidity (NTU)
200	1016	6.9	1720	11.2	1.12	-30.2	41.7
400	1022	6.8	1750	10.2	0.43	-24.4	26.6
400	1025	6.9	1740	10.8	0.38	-29.9	
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/13/2016

Sample Time: 1025

Weather: Cold and windy

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/13/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/13/2016

Sample Location ID: T-59-15.1

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-59-17.1

Purge Date: 12/13/2016

Depth to Water ($\pm 0.1\text{ft.}$): 9.17

Well Depth ($\pm 0.1\text{ft.}$): 29.13

Water Column ($\pm 0.1\text{ft.}$): 19.96

Casing Volume ($\pm 0.1\text{gal.}$): 3.25

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1033

Purge End Time: 1039 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 1.10

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/kg)	ORP (mV)	Turbidity (NTU)
400	1032	7.0	1800	13.5	1.12	2.6	42.1
400	1035	7.0	1940	13.7	0.36	-17.5	26.6
400	1039	6.9	1870	10.8	0.38	-29.9	
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/13/2016

Sample Time: 1039

Weather: Cold and windy

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/13/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/13/2016

Sample Location ID: T-59-17.1

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-59-19.1

Purge Date: 12/13/2016

Depth to Water ($\pm 0.1\text{ft.}$): 9.17

Well Depth ($\pm 0.1\text{ft.}$): 29.13

Water Column ($\pm 0.1\text{ft.}$): 19.96

Casing Volume ($\pm 0.1\text{gal.}$): 3.25

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1045

Purge End Time: 1053 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 1.00

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/kg)	ORP (mV)	Turbidity (NTU)
400	1048	7.0	2390	14.6	1.00	-59.8	92.6
400	1050	7.0	2400	14.7	0.32	-65.0	28.6
400	1053	7.0	2410	14.2	0.17	-63.7	
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/13/2016

Sample Time: 1053

Weather: Cold and windy

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/13/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

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Date: 12/13/2016

Sample Location ID: T-59-19.1

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-59-21.1

Purge Date: 12/13/2016

Depth to Water ($\pm 0.1\text{ft.}$): 9.17

Well Depth ($\pm 0.1\text{ft.}$): 29.13

Water Column ($\pm 0.1\text{ft.}$): 19.96

Casing Volume ($\pm 0.1\text{gal.}$): 3.25

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1058

Purge End Time: 1108 (Note: Sample must be collected within 24 hours of purge time)

Volume Purged: 1.00

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/kg)	ORP (mV)	Turbidity (NTU)
<50							
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/13/2016

Sample Time: N/A

Weather: Cold and windy

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/13/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/13/2016

Sample Location ID: T-59-21.1

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form

KF

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)

KF

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)

KF

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO₃

N/A

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)

N/A

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed

N/A

Field Parameter Form completed per EPM-SAP-111

N/A

Used filters collected and bagged for HP screening

N/A

All equipment decontaminated per EPM-SAP-107

N/A

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-59-23.1

Purge Date: 12/13/2016

Depth to Water ($\pm 0.1\text{ft.}$): 9.17

Well Depth ($\pm 0.1\text{ft.}$): 29.13

Water Column ($\pm 0.1\text{ft.}$): 19.96

Casing Volume ($\pm 0.1\text{gal.}$): 3.25

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1100

Purge End Time: 1117 (Note: Sample must be collected within 24 hours of purge time)

Volume Purged: N/A

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/kg)	ORP (mV)	Turbidity (NTU)
NO FLOW							
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/13/2016

Sample Time: N/A

Weather: Cold and windy

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/13/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

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Date: 12/13/2016

Sample Location ID: T-59-23.1

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form KF

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP) KF

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP) KF

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO₃ N/A

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1) N/A

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed N/A

Field Parameter Form completed per EPM-SAP-111 N/A

Used filters collected and bagged for HP screening N/A

All equipment decontaminated per EPM-SAP-107 N/A

**CIMARRON ENVIRONMENTAL RESPONSE TRUST
FIELD PARAMETER FORM**

Sample Location: T-59-25.1

Purge Date: 12/13/2016

Depth to Water ($\pm 0.1\text{ft.}$): 9.17

Well Depth ($\pm 0.1\text{ft.}$): 29.13

Water Column ($\pm 0.1\text{ft.}$): 19.96

Casing Volume ($\pm 0.1\text{gal.}$): 3.25

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1119

Purge End Time: 1117 (Note: Sample must be collected within 24 hours of purge time)

Volume Purged: N/A

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/kg)	ORP (mV)	Turbidity (NTU)
NO FLOW							
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/13/2016

Sample Time: N/A

Weather: Cold and windy

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/13/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

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Date: 12/13/2016

Sample Location ID: T-59-23.1

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form KF

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP) KF

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP) KF

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO₃ N/A

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1) N/A

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed N/A

Field Parameter Form completed per EPM-SAP-111 N/A

Used filters collected and bagged for HP screening N/A

All equipment decontaminated per EPM-SAP-107 N/A

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-59-27.1

Purge Date: 12/13/2016

Depth to Water ($\pm 0.1\text{ft.}$): 9.17

Well Depth ($\pm 0.1\text{ft.}$): 29.13

Water Column ($\pm 0.1\text{ft.}$): 19.96

Casing Volume ($\pm 0.1\text{gal.}$): 3.25

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1119

Purge End Time: 1140 (Note: Sample must be collected within 24 hours of purge time)

Volume Purged: N/A

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/kg)	ORP (mV)	Turbidity (NTU)
NO FLOW							
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/13/2016

Sample Time: N/A

Weather: Cold and windy

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/13/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/13/2016

Sample Location ID: T-59-27.1

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form

KF

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)

KF

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)

KF

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO₃

N/A

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)

N/A

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed

N/A

Field Parameter Form completed per EPM-SAP-111

N/A

Used filters collected and bagged for HP screening

N/A

All equipment decontaminated per EPM-SAP-107

N/A

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: T-59

Purge Date: 12/13/2016

Depth to Water ($\pm 0.1\text{ft.}$): 9.17

Well Depth ($\pm 0.1\text{ft.}$): 29.13

Water Column ($\pm 0.1\text{ft.}$): 19.96

Casing Volume ($\pm 0.1\text{gal.}$): 3.25

Purge Method (*pump & type, bailer & type, etc.*): Grundfos

Purge Start Time: 0825

Purge End Time: 0830 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 13.00

FIELD PARAMETER LOG

Flow Rate (<i>ml/min</i>)	Purge Volume (<i>gallons</i>)	pH (<i>std. units ± 0.1</i>)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	ORP (<i>mV</i>)	Turbidity (<i>NTU</i>)
	3.25	7.1	2530	15.6		
	6.50	7.2	2230	16.0		
	9.75	7.1	2220	16.1		
	13.00	7.1	2220	16.8		
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	1 sample <10 NTU

Sample Date: 12/13/2016

Sample Time: 0830

Weather: Cold and windy

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Grundfos

Sample Appearance: Clear

Sampler (*print name*): Dane Kaylor

Date: 12/13/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/13/2016

Sample Location ID: T-59

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	DK
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	DK
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	DK
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	DK
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	DK
---	----

Field Parameter Form completed per EPM-SAP-111	DK
--	----

Used filters collected and bagged for HP screening	DK
--	----

All equipment decontaminated per EPM-SAP-107	DK
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: 02W32-11.0

Purge Date: 12/15/2016

Depth to Water ($\pm 0.1\text{ft.}$): 12.50

Well Depth ($\pm 0.1\text{ft.}$): 23.55

Water Column ($\pm 0.1\text{ft.}$): 11.05

Casing Volume ($\pm 0.1\text{gal.}$): 1.80

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 0823

Purge End Time: 0830 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 0.80

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
600	0826	6.9	1460	14.3	1.34	28.0	64.4
600	0828	7.0	1480	14.2	0.68	-20.8	14.2
600	0830	7.0	1480	14.6	0.47	-28.3	12.5
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/15/2016

Sample Time: 0830

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/15/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/15/2016

Sample Location ID: 02W32-11.0

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: 02W32-13.0 + DUP

Purge Date: 12/15/2016

Depth to Water ($\pm 0.1\text{ft.}$): 12.50

Well Depth ($\pm 0.1\text{ft.}$): 23.55

Water Column ($\pm 0.1\text{ft.}$): 11.05

Casing Volume ($\pm 0.1\text{gal.}$): 1.80

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 0835

Purge End Time: 0842 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 0.80

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
600	0837	7.1	1360	15.3	0.46	-38.5	133
600	0839	7.1	1300	15.7	0.29	-49.0	47.6
600	0842	7.1	1270	15.5	0.19	-53.7	15.9
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/15/2016

Sample Time: 0842

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/15/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/15/2016

Sample Location ID: 02W32-13.0 + DUP

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	KF
--	----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: 02W32-15.0

Purge Date: 12/15/2016

Depth to Water ($\pm 0.1\text{ft.}$): 12.50

Well Depth ($\pm 0.1\text{ft.}$): 23.55

Water Column ($\pm 0.1\text{ft.}$): 11.05

Casing Volume ($\pm 0.1\text{gal.}$): 1.80

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 0844

Purge End Time: 0852 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 0.75

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
600	0847	7.1	1010	15.3	0.18	-85.8	OOR
600	0849	7.1	1000	15.5	0.15	-94.0	449
600	0852	7.1	980	15.4	0.12	-90.3	15.9
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/15/2016

Sample Time: 0852

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/15/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

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Date: 12/15/2016

Sample Location ID: 02W32-15.0

Checklist Item	Sampler Initials
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Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO3	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples property labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: 02W32-17.0

Purge Date: 12/15/2016

Depth to Water ($\pm 0.1\text{ft.}$): 12.50

Well Depth ($\pm 0.1\text{ft.}$): 23.55

Water Column ($\pm 0.1\text{ft.}$): 11.05

Casing Volume ($\pm 0.1\text{gal.}$): 1.80

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 0855

Purge End Time: 0902 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 0.75

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
600	0858	7.0	950	15.6	1.49	97.8	277
600	0900	7.0	950	15.7	1.13	-96.4	75.9
600	0902	7.1	980	15.4	0.12	-90.3	15.9
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/15/2016

Sample Time: 0902

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/15/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/15/2016

Sample Location ID: 02W32-17.0

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: 02W32-19.0

Purge Date: 12/15/2016

Depth to Water ($\pm 0.1\text{ft.}$): 12.50

Well Depth ($\pm 0.1\text{ft.}$): 23.55

Water Column ($\pm 0.1\text{ft.}$): 11.05

Casing Volume ($\pm 0.1\text{gal.}$): 1.80

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 0905

Purge End Time: 0910 (Note: Sample must be collected within 24 hours of purge time)

Volume Purged: N/A

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
NO FLOW							
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/15/2016

Sample Time: N/A

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/15/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/15/2016

Sample Location ID: 02W32-19.0

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form

KF

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)

N/A

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)

KF

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO₃

N/A

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)

N/A

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed

KF

Field Parameter Form completed per EPM-SAP-111

KF

Used filters collected and bagged for HP screening

KF

All equipment decontaminated per EPM-SAP-107

KF

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: 02W32

Purge Date: 12/15/2016

Depth to Water ($\pm 0.1\text{ft.}$): 12.50

Well Depth ($\pm 0.1\text{ft.}$): 23.55

Water Column ($\pm 0.1\text{ft.}$): 11.05

Casing Volume ($\pm 0.1\text{gal.}$): 1.80

Purge Method (*pump & type, bailer & type, etc.*): Grundfos

Purge Start Time: 0745

Purge End Time: 0750 *(Note: Sample must be collected within 24 hours of purge time)*

Volume Purged: 5.40

FIELD PARAMETER LOG

Purge Volume (gallons)	pH (std. units ± 0.1)	Specific Conductivity ($\mu\text{m/cm}$ to 3 sig. digits)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)
1.80	7.3	1009	15.7
3.60	7.4	1045	15.9
5.40	7.4	1050	16.8
<i>Acceptance Criteria</i>	<i>3 samples ± 0.1 unit</i>	<i>3 samples $\pm 10\%$</i>	<i>3 samples $\pm 10\%$</i>

Sample Date: 12/15/2016

Sample Time: 0750

Weather: Cold and Clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Grundfos

Sample Appearance: Clear

Sampler (*print name*): Dane Kaylor

Date: 12/15/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/15/2016

Sample Location ID: 02W32

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form

DK

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)

DK

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)

DK

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO₃

DK

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)

N/A

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed

DK

Field Parameter Form completed per EPM-SAP-111

DK

Used filters collected and bagged for HP screening

DK

All equipment decontaminated per EPM-SAP-107

DK

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: 02W44-10.5

Purge Date: 12/15/2016

Depth to Water ($\pm 0.1\text{ft.}$): 12.00

Well Depth ($\pm 0.1\text{ft.}$): 28.98

Water Column ($\pm 0.1\text{ft.}$): 16.98

Casing Volume ($\pm 0.1\text{gal.}$): 2.75

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1000

Purge End Time: 1008 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 0.75

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
500	1002	7.0	1260	13.5	1.37	-18.3	233
500	1004	7.0	1290	13.8	0.85	-22.9	77.5
500	1006	7.0	1290	14.1	0.61	-27.2	42.7
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/15/2016

Sample Time: 1008

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/15/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/15/2016

Sample Location ID: 02W44-10.5

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: 02W44-12.5

Purge Date: 12/15/2016

Depth to Water ($\pm 0.1\text{ft.}$): 12.00

Well Depth ($\pm 0.1\text{ft.}$): 28.98

Water Column ($\pm 0.1\text{ft.}$): 16.98

Casing Volume ($\pm 0.1\text{gal.}$): 2.75

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1009

Purge End Time: 1018 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 0.75

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
600	1012	7.0	1290	14.5	0.39	-67.0	340
600	1014	7.0	1320	15.1	0.25	-76.9	57.1
600	1016	7.0	1340	15.2	0.21	-86.2	33.5
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/15/2016

Sample Time: 1018

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/15/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

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Date: 12/15/2016

Sample Location ID: 02W44-12.5

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples property labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: 02W44-14.5

Purge Date: 12/15/2016

Depth to Water ($\pm 0.1\text{ft.}$): 12.00

Well Depth ($\pm 0.1\text{ft.}$): 28.98

Water Column ($\pm 0.1\text{ft.}$): 16.98

Casing Volume ($\pm 0.1\text{gal.}$): 2.75

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1019

Purge End Time: 1024 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 0.75

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
500	1020	7.0	1280	15.0	0.30	-30.0	386
500	1022	7.0	1290	15.3	0.19	-23.8	91.3
500	1024	7.0	1280	15.4	0.17	-16.2	38.2
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/15/2016

Sample Time: 1024

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/15/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

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Date: 12/15/2016

Sample Location ID: 02W44-14.5

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: 02W44-16.5

Purge Date: 12/15/2016

Depth to Water ($\pm 0.1\text{ft.}$): 12.00

Well Depth ($\pm 0.1\text{ft.}$): 28.98

Water Column ($\pm 0.1\text{ft.}$): 16.98

Casing Volume ($\pm 0.1\text{gal.}$): 2.75

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1026

Purge End Time: 1032 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 0.75

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
500	1028	7.0	1300	15.3	0.30	-40.2	477
500	1030	7.0	1320	15.6	0.12	-33.3	130
500	1024	7.0	1320	15.5	0.10	-38.4	55.6
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/15/2016

Sample Time: 1032

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/15/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

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Date: 12/15/2016

Sample Location ID: 02W44-16.5

Checklist Item	Sampler Initials
-----------------------	-------------------------

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples property labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: 02W44-18.5

Purge Date: 12/15/2016

Depth to Water ($\pm 0.1\text{ft.}$): 12.00

Well Depth ($\pm 0.1\text{ft.}$): 28.98

Water Column ($\pm 0.1\text{ft.}$): 16.98

Casing Volume ($\pm 0.1\text{gal.}$): 2.75

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1034

Purge End Time: 1040 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 0.75

FIELD PARAMETER LOG

Flow Rate (<i>ml/min</i>)	Time	pH (<i>std. units ± 0.1</i>)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (<i>mg/L</i>)	ORP (<i>mV</i>)	Turbidity (<i>NTU</i>)
500	1036	7.0	1330	15.5	0.51	17.2	257
500	1038	7.0	1370	15.9	0.14	29.5	29.9
500	1040	7.0	1370	16.0	0.12	34.7	22.4
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/15/2016

Sample Time: 1040

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/15/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

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Date: 12/15/2016

Sample Location ID: 02W44-18.5

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples property labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: 02W44-20.5

Purge Date: 12/15/2016

Depth to Water ($\pm 0.1\text{ft.}$): 12.00

Well Depth ($\pm 0.1\text{ft.}$): 28.98

Water Column ($\pm 0.1\text{ft.}$): 16.98

Casing Volume ($\pm 0.1\text{gal.}$): 2.75

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1041

Purge End Time: 1050 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 0.75

FIELD PARAMETER LOG

Flow Rate (<i>ml/min</i>)	Time	pH (<i>std. units ± 0.1</i>)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (<i>mg/L</i>)	ORP (<i>mV</i>)	Turbidity (<i>NTU</i>)
180	1046	7.1	1130	13.5	0.81	-55.3	554
180	1048	7.1	1120	12.9	0.80	-74.2	23.3
180	1050	7.1	1090	12.8	0.73	-82.4	14.6
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/15/2016

Sample Time: 1050

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/15/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

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Date: 12/15/2016

Sample Location ID: 02W44-20.5

Checklist Item	Sampler Initials
-----------------------	-------------------------

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples property labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: 02W44-22.5 + DUP

Purge Date: 12/15/2016

Depth to Water ($\pm 0.1\text{ft.}$): 12.00

Well Depth ($\pm 0.1\text{ft.}$): 28.98

Water Column ($\pm 0.1\text{ft.}$): 16.98

Casing Volume ($\pm 0.1\text{gal.}$): 2.75

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1056

Purge End Time: 1102 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 0.75

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
600	1058	7.1	1080	15.5	0.42	-66.1	190
600	1100	7.1	1120	16.0	0.17	-67.1	81.8
600	1102	7.0	1130	15.8	0.15	-69.4	39.1
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/15/2016

Sample Time: 1102

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/15/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/15/2016

Sample Location ID: 02W44-22.5 + DUP

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO3	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	KF
--	----

Post-Sampling

Samples property labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: 02W44-24.5

Purge Date: 12/15/2016

Depth to Water ($\pm 0.1\text{ft.}$): 12.00

Well Depth ($\pm 0.1\text{ft.}$): 28.98

Water Column ($\pm 0.1\text{ft.}$): 16.98

Casing Volume ($\pm 0.1\text{gal.}$): 2.75

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1107

Purge End Time: 1115 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 0.40

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
200	1111	7.2	1630	12.6	0.52	-98.3	297
200	1113	7.1	1670	12.4	0.31	-121.0	233
200	1115	7.1	1680	12.2	0.28	-120.0	72.3
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/15/2016

Sample Time: 1115

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/15/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

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Date: 12/15/2016

Sample Location ID: 02W44-24.5

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO3	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: 02W44-25.5
Depth to Water ($\pm 0.1\text{ft.}$): 12.00

Purge Date: 12/15/2016
Well Depth ($\pm 0.1\text{ft.}$): 28.98

Water Column ($\pm 0.1\text{ft.}$): 16.98

Casing Volume ($\pm 0.1\text{gal.}$): 2.75

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1120

Purge End Time: 1122 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: N/A

FIELD PARAMETER LOG

Flow Rate (<i>ml/min</i>)	Time	pH (<i>std. units ± 0.1</i>)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (<i>mg/L</i>)	ORP (<i>mV</i>)	Turbidity (<i>NTU</i>)
NO FLOW							
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/15/2016

Sample Time: N/A

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/15/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

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Date: 12/15/2016

Sample Location ID: 02W44-25.5

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	N/A
--	-----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO3	N/A
--	-----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples property labeled and placed in coolers on ice as needed	N/A
---	-----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: 02W44

Purge Date: 12/15/2016

Depth to Water ($\pm 0.1\text{ft.}$): 12.00

Well Depth ($\pm 0.1\text{ft.}$): 28.98

Water Column ($\pm 0.1\text{ft.}$): 16.98

Casing Volume ($\pm 0.1\text{gal.}$): 2.75

Purge Method (*pump & type, bailer & type, etc.*): Grundfos

Purge Start Time: 0925

Purge End Time: 0930 *(Note: Sample must be collected within 24 hours of purge time)*

Volume Purged: 5.40

FIELD PARAMETER LOG

Purge Volume (gallons)	pH (std. units ± 0.1)	Specific Conductivity ($\mu\text{m/cm}$ to 3 sig. digits)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)
2.75	7.3	1215	15.8
5.50	7.2	1206	15.9
8.25	7.2	1210	16.0
<i>Acceptance Criteria</i>	<i>3 samples ± 0.1 unit</i>	<i>3 samples $\pm 10\%$</i>	<i>3 samples $\pm 10\%$</i>

Sample Date: 12/15/2016

Sample Time: 0930

Weather: Cold and Clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Grundfos

Sample Appearance: Clear

Sampler (*print name*): Dane Kaylor

Date: 12/15/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

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Date: 12/15/2016

Sample Location ID: 02W44

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form

DK

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)

DK

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)

DK

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO₃

DK

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)

N/A

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed

DK

Field Parameter Form completed per EPM-SAP-111

DK

Used filters collected and bagged for HP screening

DK

All equipment decontaminated per EPM-SAP-107

DK

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: TMW-24-10.7

Purge Date: 12/15/2016

Depth to Water ($\pm 0.1\text{ft.}$): 12.16

Well Depth ($\pm 0.1\text{ft.}$): 28.75

Water Column ($\pm 0.1\text{ft.}$): 16.59

Casing Volume ($\pm 0.1\text{gal.}$): 2.70

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1300

Purge End Time: 1306 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 0.70

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
600	1302	7.0	1470	15.3	0.92	-75.3	569
600	1304	7.0	1460	15.6	0.71	-63.4	175
600	1306	7.0	1450	15.7	0.57	-54.1	77.7
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/15/2016

Sample Time: 1306

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/15/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

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Date: 12/15/2016

Sample Location ID: TMW-24-10.7

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: TMW-24-12.7

Purge Date: 12/15/2016

Depth to Water ($\pm 0.1\text{ft.}$): 12.16

Well Depth ($\pm 0.1\text{ft.}$): 28.75

Water Column ($\pm 0.1\text{ft.}$): 16.59

Casing Volume ($\pm 0.1\text{gal.}$): 2.70

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1310

Purge End Time: 1316 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 0.60

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
500	1312	7.0	1350	15.4	1.06	-55.4	795
500	1314	7.1	1300	16.2	0.75	-72.4	357
600	1316	7.0	1310	16.0	0.69	-73.7	180
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/15/2016

Sample Time: 1316

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/15/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

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Date: 12/15/2016

Sample Location ID: TMW-24-12.7

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: TMW-24-14.7

Purge Date: 12/15/2016

Depth to Water ($\pm 0.1\text{ft.}$): 12.16

Well Depth ($\pm 0.1\text{ft.}$): 28.75

Water Column ($\pm 0.1\text{ft.}$): 16.59

Casing Volume ($\pm 0.1\text{gal.}$): 2.70

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1318

Purge End Time: 1326 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 0.60

FIELD PARAMETER LOG

Flow Rate (<i>ml/min</i>)	Time	pH (<i>std. units ± 0.1</i>)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (<i>mg/L</i>)	ORP (<i>mV</i>)	Turbidity (<i>NTU</i>)
600	1322	7.1	1270	15.8	0.35	-91.7	912
600	1324	7.1	1260	16.3	0.15	-104.1	230
600	1326	7.0	1260	16.5	0.11	-104.0	87.5
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/15/2016

Sample Time: 1326

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/15/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

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Date: 12/15/2016

Sample Location ID: TMW-24-14.7

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: TMW-24-16.7

Purge Date: 12/15/2016

Depth to Water ($\pm 0.1\text{ft.}$): 12.16

Well Depth ($\pm 0.1\text{ft.}$): 28.75

Water Column ($\pm 0.1\text{ft.}$): 16.59

Casing Volume ($\pm 0.1\text{gal.}$): 2.70

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1328

Purge End Time: 1336 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 0.75

FIELD PARAMETER LOG

Flow Rate (<i>ml/min</i>)	Time	pH (<i>std. units ± 0.1</i>)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (<i>mg/L</i>)	ORP (<i>mV</i>)	Turbidity (<i>NTU</i>)
400	1330	7.2	1120	15.8	0.23	-118.0	150
400	1332	7.2	1090	15.7	0.15	-119.4	82.3
400	1334	7.2	1090	15.6	0.15	-119.5	35.2
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/15/2016

Sample Time: 1336

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/15/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/15/2016

Sample Location ID: TMW-24-16.7

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: TMW-24-18.7

Purge Date: 12/15/2016

Depth to Water ($\pm 0.1\text{ft.}$): 12.16

Well Depth ($\pm 0.1\text{ft.}$): 28.75

Water Column ($\pm 0.1\text{ft.}$): 16.59

Casing Volume ($\pm 0.1\text{gal.}$): 2.70

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1337

Purge End Time: 1340 (Note: Sample must be collected within 24 hours of purge time)

Volume Purged: N/A

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
NO FLOW							
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/15/2016

Sample Time: N/A

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/15/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/15/2016

Sample Location ID: TMW-24-18.7

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form

KF

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)

N/A

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)

KF

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO₃

N/A

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)

N/A

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed

KF

Field Parameter Form completed per EPM-SAP-111

KF

Used filters collected and bagged for HP screening

KF

All equipment decontaminated per EPM-SAP-107

KF

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: TMW-24-20.7

Purge Date: 12/15/2016

Depth to Water ($\pm 0.1\text{ft.}$): 12.16

Well Depth ($\pm 0.1\text{ft.}$): 28.75

Water Column ($\pm 0.1\text{ft.}$): 16.59

Casing Volume ($\pm 0.1\text{gal.}$): 2.70

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1337

Purge End Time: 1340 (Note: Sample must be collected within 24 hours of purge time)

Volume Purged: N/A

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
NO FLOW							
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/15/2016

Sample Time: N/A

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/15/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/15/2016

Sample Location ID: TMW-24-20.7

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form

KF

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)

N/A

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)

KF

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO₃

N/A

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)

N/A

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed

KF

Field Parameter Form completed per EPM-SAP-111

KF

Used filters collected and bagged for HP screening

KF

All equipment decontaminated per EPM-SAP-107

KF

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: TMW-24-22.7

Purge Date: 12/15/2016

Depth to Water ($\pm 0.1\text{ft.}$): 12.16

Well Depth ($\pm 0.1\text{ft.}$): 28.75

Water Column ($\pm 0.1\text{ft.}$): 16.59

Casing Volume ($\pm 0.1\text{gal.}$): 2.70

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1347

Purge End Time: 1355 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 0.50

FIELD PARAMETER LOG

Flow Rate (<i>ml/min</i>)	Time	pH (<i>std. units ± 0.1</i>)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (<i>mg/L</i>)	ORP (<i>mV</i>)	Turbidity (<i>NTU</i>)
400	1349	7.2	1030	13.4	1.26	-117.1	301
400	1352	7.2	1060	14.6	0.53	-109.9	72.5
400	1355	7.1	1070	14.5	0.30	-97.5	15.1
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/15/2016

Sample Time: 1355

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/15/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/15/2016

Sample Location ID: TMW-24-22.7

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO3	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples property labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: TMW-24-24.7 + DUP

Purge Date: 12/15/2016

Depth to Water ($\pm 0.1\text{ft.}$): 12.16

Well Depth ($\pm 0.1\text{ft.}$): 28.75

Water Column ($\pm 0.1\text{ft.}$): 16.59

Casing Volume ($\pm 0.1\text{gal.}$): 2.70

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1357

Purge End Time: 1405 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 0.60

FIELD PARAMETER LOG

Flow Rate (<i>ml/min</i>)	Time	pH (<i>std. units ± 0.1</i>)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (<i>mg/L</i>)	ORP (<i>mV</i>)	Turbidity (<i>NTU</i>)
600	1359	7.1	1030	15.4	0.82	-105.0	131
600	1401	7.1	1030	15.3	0.65	-104.2	20.5
600	1403	7.1	1020	15.4	0.47	-99.2	11.6
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/15/2016

Sample Time: 1405

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/15/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/15/2016

Sample Location ID: TMW-24-24.7 + DUP

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	KF
--	----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

**CIMARRON ENVIRONMENTAL RESPONSE TRUST
FIELD PARAMETER FORM**

Sample Location: TMW-24

Purge Date: 12/15/2016

Depth to Water ($\pm 0.1\text{ft.}$): 12.16

Well Depth ($\pm 0.1\text{ft.}$): 28.75

Water Column ($\pm 0.1\text{ft.}$): 16.59

Casing Volume ($\pm 0.1\text{gal.}$): 2.70

Purge Method (*pump & type, bailer & type, etc.*): Grundfos

Purge Start Time: 1235

Purge End Time: 1240

(Note: Sample must be collected
within 24 hours of purge time)

Volume Purged: 8.10

FIELD PARAMETER LOG

Purge Volume (gallons)	pH (std. units ± 0.1)	Specific Conductivity ($\mu\text{m/cm}$ to 3 sig. digits)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)
2.70	7.4	976	15.4
5.40	7.4	978	16.0
8.10	7.4	973	16.3
Acceptance Criteria	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$

Sample Date: 12/15/2016

Sample Time: 1240

Weather: Warm and Windy

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Grundfos

Sample Appearance: Clear

Sampler (*print name*): Dane Kaylor

Date: 12/15/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/15/2016

Sample Location ID: TMW-24

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form

DK

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)

DK

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)

DK

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO₃

DK

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)

N/A

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed

DK

Field Parameter Form completed per EPM-SAP-111

DK

Used filters collected and bagged for HP screening

DK

All equipment decontaminated per EPM-SAP-107

DK

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: 1373-7.4

Purge Date: 12/15/2016

Depth to Water ($\pm 0.1\text{ft.}$): 8.93

Well Depth ($\pm 0.1\text{ft.}$): 27.60

Water Column ($\pm 0.1\text{ft.}$): 18.97

Casing Volume ($\pm 0.1\text{gal.}$): 3.04

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1450

Purge End Time: 1500 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 1.00

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
600	1456	7.1	1260	13.2	1.94	-41.8	16.8
600	1458	7.1	1270	13.4	1.07	-44.7	7.07
600	1500	7.0	1290	13.8	0.39	-51.4	5.32
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/15/2016

Sample Time: 1500

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/15/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/15/2016

Sample Location ID: 1373-7.4

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples property labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: 1373-9.4

Purge Date: 12/15/2016

Depth to Water ($\pm 0.1\text{ft.}$): 8.93

Well Depth ($\pm 0.1\text{ft.}$): 27.60

Water Column ($\pm 0.1\text{ft.}$): 18.97

Casing Volume ($\pm 0.1\text{gal.}$): 3.04

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1503

Purge End Time: 1510 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 1.00

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
600	1505	7.2	1060	14.5	0.33	-65.8	41.6
600	1508	7.2	1020	14.5	0.31	-71.2	17.6
600	1510	7.2	1000	14.7	0.23	-74.2	10.5
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/15/2016

Sample Time: 1510

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/15/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/15/2016

Sample Location ID: 1373-9.4

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO3	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples property labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: 1373-11.4

Purge Date: 12/15/2016

Depth to Water ($\pm 0.1\text{ft.}$): 8.93

Well Depth ($\pm 0.1\text{ft.}$): 27.60

Water Column ($\pm 0.1\text{ft.}$): 18.97

Casing Volume ($\pm 0.1\text{gal.}$): 3.04

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1512

Purge End Time: 1520 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 0.70

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
600	1515	7.1	1050	15.1	0.33	-97.4	63.6
600	1517	7.2	1070	15.2	0.26	-104.3	18.8
600	1520	7.1	1070	15.2	0.19	-107.2	13.2
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/15/2016

Sample Time: 1520

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/15/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/15/2016

Sample Location ID: 1373-11.4

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: 1373-13.4

Purge Date: 12/15/2016

Depth to Water ($\pm 0.1\text{ft.}$): 8.93

Well Depth ($\pm 0.1\text{ft.}$): 27.60

Water Column ($\pm 0.1\text{ft.}$): 18.97

Casing Volume ($\pm 0.1\text{gal.}$): 3.04

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1523

Purge End Time: 1530 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 0.80

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
600	1525	7.2	1060	15.5	0.13	-110.3	150
600	1527	7.1	1070	15.4	0.35	-109.8	36.6
600	1530	7.1	1070	15.5	0.32	-110.8	20.3
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/15/2016

Sample Time: 1530

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/15/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/15/2016

Sample Location ID: 1373-13.4

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: 1373-15.4

Purge Date: 12/15/2016

Depth to Water ($\pm 0.1\text{ft.}$): 8.93

Well Depth ($\pm 0.1\text{ft.}$): 27.60

Water Column ($\pm 0.1\text{ft.}$): 18.97

Casing Volume ($\pm 0.1\text{gal.}$): 3.04

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1532

Purge End Time: 1536 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 1200 ml

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
<100	GRAB // 1536	7.1	1080	14.3	0.23	-111.0	235
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/15/2016

Sample Time: 1536

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/15/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/15/2016

Sample Location ID: 1373-15.4

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: 1373-17.4

Purge Date: 12/15/2016

Depth to Water ($\pm 0.1\text{ft.}$): 8.93

Well Depth ($\pm 0.1\text{ft.}$): 27.60

Water Column ($\pm 0.1\text{ft.}$): 18.97

Casing Volume ($\pm 0.1\text{gal.}$): 3.04

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1542

Purge End Time: 1550 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 0.50

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
500	1545	7.2	1090	14.1	0.32	-110.3	64.8
500	1547	7.2	1110	14.4	0.14	-99.6	12.4
500	1550	7.1	1110	14.5	0.14	-100.3	8.71
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/15/2016

Sample Time: 1550

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/15/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/15/2016

Sample Location ID: 1373-17.4

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: 1373-19.4

Purge Date: 12/15/2016

Depth to Water ($\pm 0.1\text{ft.}$): 8.93

Well Depth ($\pm 0.1\text{ft.}$): 27.60

Water Column ($\pm 0.1\text{ft.}$): 18.97

Casing Volume ($\pm 0.1\text{gal.}$): 3.04

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1551

Purge End Time: 1554 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 750 ml

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
<100	1554 // GRAB						
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/15/2016

Sample Time: 1554

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/15/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/15/2016

Sample Location ID: 1373-19.4

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: 1373-21.4

Purge Date: 12/15/2016

Depth to Water ($\pm 0.1\text{ft.}$): 8.93

Well Depth ($\pm 0.1\text{ft.}$): 27.60

Water Column ($\pm 0.1\text{ft.}$): 18.97

Casing Volume ($\pm 0.1\text{gal.}$): 3.04

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1600

Purge End Time: 1605 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 750 ml

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
<100	1605 // GRAB						
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/15/2016

Sample Time: 1605

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/15/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/15/2016

Sample Location ID: 1373-21.4

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

CIMARRON ENVIRONMENTAL RESPONSE TRUST FIELD PARAMETER FORM

Sample Location: 1373-24.3

Purge Date: 12/15/2016

Depth to Water ($\pm 0.1\text{ft.}$): 8.93

Well Depth ($\pm 0.1\text{ft.}$): 27.60

Water Column ($\pm 0.1\text{ft.}$): 18.97

Casing Volume ($\pm 0.1\text{gal.}$): 3.04

Purge Method (*pump & type, bailer & type, etc.*): Peristaltic

Purge Start Time: 1615

Purge End Time: 1622 (*Note: Sample must be collected within 24 hours of purge time*)

Volume Purged: 1.00

FIELD PARAMETER LOG

Flow Rate (ml/min)	Time	pH (std. units ± 0.1)	S. Conductivity ($\mu\text{m/cm}$)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
600	1618	7.1	1400	15.2	0.45	-110.6	35.0
600	1620	7.2	1430	15.2	0.26	-110.9	21.0
600	1622	7.1	1450	15.3	0.16	-111.9	14.8
Acceptance Criteria	N/A	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$	N/A	N/A	N/A

Sample Date: 12/15/2016

Sample Time: 1622

Weather: Cold and clear

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Peristaltic

Sample Appearance: Clear

Sampler (*print name*): Kevin Fagan

Date: 12/15/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/15/2016

Sample Location ID: 1373-24.3

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form	KF
---	----

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)	KF
--	----

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)	KF
---	----

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO ₃	KF
--	----

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)	N/A
--	-----

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed	KF
---	----

Field Parameter Form completed per EPM-SAP-111	KF
--	----

Used filters collected and bagged for HP screening	KF
--	----

All equipment decontaminated per EPM-SAP-107	KF
--	----

**CIMARRON ENVIRONMENTAL RESPONSE TRUST
FIELD PARAMETER FORM**

Sample Location: 1373

Purge Date: 12/15/2016

Depth to Water ($\pm 0.1\text{ft.}$): 8.93

Well Depth ($\pm 0.1\text{ft.}$): 27.60

Water Column ($\pm 0.1\text{ft.}$): 18.97

Casing Volume ($\pm 0.1\text{gal.}$): 3.04

Purge Method (*pump & type, bailer & type, etc.*): Grundfos

Purge Start Time: 1415

Purge End Time: 1422

(Note: Sample must be collected
within 24 hours of purge time)

Volume Purged: 9.12

FIELD PARAMETER LOG

Purge Volume (gallons)	pH (std. units ± 0.1)	Specific Conductivity ($\mu\text{m/cm}$ to 3 sig. digits)	Temperature ($^{\circ}\text{C} \pm 0.1^{\circ}$)
3.04	7.4	1517	15.6
6.08	7.4	1545	15.8
9.12	7.3	1559	16.1
Acceptance Criteria	3 samples ± 0.1 unit	3 samples $\pm 10\%$	3 samples $\pm 10\%$

Sample Date: 12/15/2016

Sample Time: 1422

Weather: Cold and overcast

Sample Method (*bailer (type), pump (type), scoop (type), etc.*):

Filtered Grundfos

Sample Appearance: Clear

Sampler (*print name*): Dane Kaylor

Date: 12/15/2016

Note: Use chain of custody form to indicate which sample bottles were filtered and filter size.

CIMARRON ENVIRONMENTAL RESPONSE TRUST GROUNDWATER SAMPLING CHECKLIST

This checklist is provided as a supplement to the Cimarron Environmental Response Trust (CERT) Sampling and Analysis Plan (SAP) to ensure proper data collection and documentation. All field personnel must be familiar with the CERT SAP and the Standard Operating Procedures for sample collection and documentation.

Date: 12/15/2016

Sample Location ID: 1373

Checklist Item

Sampler Initials

Pre-Sampling

Depth to water and total well depth measured and recorded on field parameter form

DK

Well purged a minimum of three (3) well casing volumes (make notation on the field parameter form if deviating from SAP)

DK

Field parameters collected and recorded on field parameter form (make notation if deviating from SAP)

DK

Filtered Samples Collected

Uranium – U235 & U238 by EAP 200.8 – 250 ml plastic bottle preserved with HNO₃

DK

QA/QC samples collected (duplicate samples as indicated on APF Attachment 1)

N/A

Post-Sampling

Samples properly labeled and placed in coolers on ice as needed

DK

Field Parameter Form completed per EPM-SAP-111

DK

Used filters collected and bagged for HP screening

DK

All equipment decontaminated per EPM-SAP-107

DK