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EPA REGION 8 QA DOCUMENT REVIEW CROSSWALK

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Final Butte Reduction Works (BRW) Phase III QAPP

EPA REGION 8 QA DOCUMENT REVIEW CROSSWALK

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QAPP/FSP/SAP for: (check appropriate box) GRANTEE CONTRACTOR EPA Other	Entity (grantee, contract, EPA AO, Atlantic Richfield (PRP)	EPA Program, Other)	Regulatory Authority and/or Funding Mechanism	 2 CFR 1500 for Grantee/Cooperative Agreements 48 CFR 46 for Contracts Interagency Agreement (FFA, USGS) EPA/Court Order EPA Program Funding EPA Program Regulation EPA CIO 2105
Document Title [Note: Title will be repeated in Header]	Final Butte Reduction Works (BRW) Phase III QAPP		
QAPP/FSP/ SAP Preparer	Pioneer Technical Services, Inc. for Company (AR)	Atlantic Richfield		
Period of Performance (of QAPP/FSP/SAP)	2021		Date Submitted for Review	04/30/2021
EPA Project Officer EPA Project Manager	Nikia Greene		PO Phone # PM Phone #	(406) 457-5019
QA Program Reviewer or Approving Official	Nikia Greene		Date of Review	5/21/21
Approving Official Nikia Greene Documents Submitted for QAPP Review (QA Reviewer must complete): 1. QA Document(s) submitted for review: QA Document Document Date Document Stand-alone Document with QAPP QAPP Yes / No SAP Yes / No Yes / No SAP Yes / No Yes / No SOP(s) Yes / No Yes / No Yes / No 2. WP/SOW/TO/PP/RP Date		 Work Plan (WP) / (RP) and funding p (RP) and funding p 2. A QAPP written by a) Copy of Task (D) b) Reference to a c) Copy of Contra d) Copy of EPA/(C) e) The QA Review for the environ 3. a. Field Sampling Project QAPP <u>or</u> elements (Project Oversight, and I) 	 a Grantee, EPA, or Statement of Work mechanism Contractor <u>must ir</u> Order Work Assignn hard or electronic c act SOW if no QMP Court Order, if appli must determine (v umental data activity Plan (FSP) and/or S <u>must</u> be a stand-alect Management, Data 	nent/SOW opy of the contractor's approved QMP has been approved cable with the EPA CO or PO) if a QARF was completed described in the QAPP. ampling & Analyses Plan (SAP) must include the one QA document that <u>contain all QAPP required</u> a Generation/Acquisition, Assessment and

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Summary of Comments (highlight significant concerns/issues): 1. EPA comment – Please address all of EPA's and DEQ's comment in the comment letter and update the crosswalk accordingly. EPA (5/21/2021) – comments addressed

Element	Acceptable Yes/No/NA	Page/ Section	Comments			
A. Project Management						
A1. Title and Approval Sheet						
a. Contains project title	Yes	Title Page	EPA: No comments (1/18/21).			
b. Date and revision number line (for when needed)	Yes	Approval Page	EPA: No comments (1/18/21).			
c. Indicates organization's name	Yes	Title Page	EPA: No comments (1/18/21).			
d. Date and signature line for organization's project manager	Yes	Approval Page	EPA: No comments (1/18/21).			
e. Date and signature line for organization's QA manager	Yes	Approval Page	EPA: No comments (1/18/21).			
f. Other date and signatures lines, as needed	Yes	Approval Page	EPA: No comments $(1/18/21)$.			
A2. Table of Contents	A2. Table of Contents					
a. Lists QA Project Plan information sections	Yes	Pages i to iii	EPA: No comments (1/18/21).			
b. Document control information indicated	Yes	Footer	EPA: No comments (1/18/21).			
A3. Distribution List						
Includes all individuals who are to receive a copy of the QA Project Plan and identifies their organization	Yes	Distribution List	EPA: No comments (1/18/21).			
A4. Project/Task Organization						
a. Identifies key individuals involved in all major aspects of the project, including contractors	Yes	Section 7.0	EPA: No comments (1/18/21).			

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b. Discusses their responsibilities	Yes	Section 7.0	EPA: No comments (1/18/21).
c. Project QA Manager position indicates independence from unit generating data	Yes	Section 7.0	EPA: No comments (1/18/21).
d. Identifies individual responsible for maintaining the official, approved QA Project Plan	Yes	Section 7.0	EPA: No comments (1/18/21).
e. Organizational chart shows lines of authority and reporting responsibilities	Yes	Figure 8 Figure 9	EPA: No comments (1/18/21).
5. Problem Definition/Background		I	
a. States decision(s) to be made, actions to be taken, or outcomes expected from the information to be obtained	Yes	Section 1.2	EPA: No comments (1/18/21).
b. Clearly explains the reason (site background or historical context) for initiating this project	Yes	Section 1.1, Section 2.0	EPA: No comments (1/18/21).
c. Identifies regulatory information, applicable criteria, action limits, etc. necessary to the project	Yes	Section 2.4	EPA: No comments (1/18/21).
6. Project/Task Description		ł	
a. Summarizes work to be performed, for example, measurements to be made, data files to be obtained, etc., that support the project's goals	Yes	Section 1.2	EPA: No comments (1/18/21).
b. Provides work schedule indicating critical project points, e.g., start and completion dates for activities such as sampling, analysis, data or file reviews, and assessments	Yes	Table 4	EPA: No comments (1/18/21).
c. Details geographical locations to be studied, including maps where possible	Yes	Figures 4 through 7 Figures 5 through 8	EPA: No comments (1/18/21).
d. Discusses resource and time constraints, if applicable	Yes	Table 3	EPA: No comments (1/18/21).

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 a. Identifies performance/measurement criteria for all information to be collected and acceptance criteria for information obtained from previous studies, including project action limits and laboratory detection limits and range of anticipated concentrations of each parameter of interest 	Yes	Section 3.1, Table 3	EPA: No comments (1/18/21).
b. Discusses precision	Yes	Section 3.1	EPA: No comments (1/18/21).
c. Addresses bias	Yes	Section 3.1	EPA: No comments (1/18/21).
d. Discusses representativeness	Yes	Section 3.1	EPA: No comments (1/18/21).
e. Identifies the need for completeness	Yes	Section 3.1	EPA: No comments (1/18/21).
f. Describes the need for comparability	Yes	Section 3.1	EPA: No comments (1/18/21).
g. Discusses desired method sensitivity	Yes	Section 3.1	EPA: No comments (1/18/21).
A8. Special Training/Certifications			
a. Identifies any project personnel specialized training or certifications	Yes	Section 4.1.1	EPA: No comments (1/18/21).
b. Discusses how this training will be provided	Yes	Section 4.1.1	EPA: No comments (1/18/21).
c. Indicates personnel responsible for assuring training/ certifications are satisfied	Yes	Section 4.1.1	EPA: No comments (1/18/21).
d. identifies where this information is documented	Yes	Section 4.1.1	EPA: No comments (1/18/21).
A9. Documentation and Records			
a. Identifies report format and summarizes all data report package information	Yes	Section 4.13 Section 4.12, Section 5.4, Section 8.1.2	EPA: No comments (1/18/21).
b. Lists all other project documents, records, and electronic files that will be produced	Yes	Section 4.13 Section 4.12	EPA: No comments (1/18/21).
c. Identifies where project information should be kept and for how long	Yes	Section 4.13 Section 4.12	EPA: No comments (1/18/21).

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d. Discusses back up plans for records stored electronically	Yes	Section 4.13 Section 4.12	EPA: No comments (1/18/21).
e. States how individuals identified in A3 will receive the most current copy of the approved QA Project Plan, identifying the individual responsible for this	Yes	Section 4.1.1, Section 7.0	EPA: No comments (1/18/21).
B. Data Generation/Acquisition			
B1. Sampling Process Design (Experimental Design)			
a. Describes and justifies design strategy, indicating size of the area, volume, or time period to be represented by a sample	Yes	Table 3	EPA: No comments (1/18/21).
b. Details the type and total number of sample types/ matrix or test runs/trials expected and needed	Yes	Table 3	EPA: No comments (1/18/21).
c. Indicates where samples should be taken, how sites will be identified/located	Yes	Table 3	EPA: No comments (1/18/21).
d. Discusses what to do if sampling sites become inaccessible	Yes	Table 3	EPA: No comments (1/18/21).
e. Identifies project activity schedules such as each sampling event, times samples should be sent to the laboratory, etc.	Yes	Table 3	EPA: No comments (1/18/21).
f. Specifies what information is critical and what is for informational purposes only	Yes	Table 3	EPA: No comments (1/18/21).
g. Identifies sources of variability and how this variability should be reconciled with project information	Yes	Table 3	EPA: No comments (1/18/21).
B2. Sampling Methods			
a. Identifies all sampling SOPs by number, date, and regulatory citation, indicating sampling options or modifications to be taken	Yes	Table 6 and Table 8 Table 7, Appendix A	EPA: No comments (1/18/21).
b. Indicates how each sample/matrix type should be collected	Yes	Table 6 and Table 8 Table 7, Appendix A	EPA: No comments (1/18/21).

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c. If in situ monitoring, indicates how instruments should be deployed and operated to avoid contamination and ensure maintenance of proper data	Yes	Section 4.0	EPA: No comments (1/18/21).
d. If continuous monitoring, indicates averaging time and how instruments should store and maintain raw data, or data averages	Yes	Section 4.0	EPA: No comments (1/18/21).
e. Indicates how samples are to be homogenized, composited, split, or filtered, if needed	Yes	Section 4.0, Appendix A	EPA: No comments (1/18/21).
f. Indicates what sample containers and sample volumes should be used	Yes	Table 6	EPA: No comments (1/18/21).
g. Identifies whether samples should be preserved and indicates methods that should be followed	Yes	Table 6	EPA: No comments (1/18/21).
h. Indicates whether sampling equipment and samplers should be cleaned and/or decontaminated, identifying how this should be done and by-products disposed of	Yes	Appendix A	EPA: No comments (1/18/21).
i. Identifies any equipment and support facilities needed	Yes	Section 4.0	EPA: No comments (1/18/21).
j. Addresses actions to be taken when problems occur, identifying individual(s) responsible for corrective action and how this should be documented	Yes	Section 5.0	EPA: No comments (1/18/21).
B3. Sample Handling and Custody		•	•
a. States maximum holding times allowed from sample collection to extraction and/or analysis for each sample type and, for in-situ or continuous monitoring, the maximum time before retrieval of information	Yes	Table 6	EPA: No comments (1/18/21).
b. Identifies how samples or information should be physically handled, transported, and then received and held in the laboratory or office (including temperature upon receipt)	Yes	Section 4.7 Section 4.6	EPA: No comments (1/18/21).
c. Indicates how sample or information handling and custody information should be documented, such as in field notebooks and forms, identifying individual responsible	Yes	Section 4.7 Section 4.6	EPA: No comments (1/18/21).

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d. Discusses system for identifying samples, for example, numbering system, sample tags and labels, and attaches forms to the plan	Yes	Section 4.7 Section 4.6	EPA: No comments (1/18/21).
e. Identifies chain-of-custody procedures and includes form to track custody	Yes	Section 4.7 Section 4.6	EPA: No comments (1/18/21).
B4. Analytical Methods	•	1	
a. Identifies all analytical SOPs (field, laboratory and/or office) that should be followed by number, date, and regulatory citation, indicating options or modifications to be taken, such as sub-sampling and extraction procedures	Yes	Table 2, Table 6, and Appendix A	EPA: No comments (1/18/21).
b. Identifies equipment or instrumentation needed	Yes	Section 4.11 Section 4.10	EPA: No comments (1/18/21).
c. Specifies any specific method performance criteria	Yes	Section 3.1, Table 6	EPA: No comments (1/18/21).
d. Identifies procedures to follow when failures occur, identifying individual responsible for corrective action and appropriate documentation	Yes	Section 5.0	EPA: No comments (1/18/21).
e. Identifies sample disposal procedures	Yes	Appendix A, Lab SOPs	EPA: No comments (1/18/21).
f. Specifies laboratory turnaround times needed	Yes	Section 4.9 Section 4.8	EPA: No comments (1/18/21).
g. Provides method validation information and SOPs for nonstandard methods	Yes	Section 8.0	EPA: No comments (1/18/21).
B5. Quality Control	•	•	
a. For each type of sampling, analysis, or measurement technique, identifies QC activities which should be used, for example, blanks, spikes, duplicates, etc., and at what frequency	Yes	Section 4.10 Section 4.9	EPA: No comments (1/18/21).
b. Details what should be done when control limits are exceeded, and how effectiveness of control actions will be determined and documented	Yes	Section 5.0	EPA: No comments (1/18/21).

c. Identifies procedures and formulas for calculating Yes Section 3.1 EPA: No comments (1/18/21). applicable QC statistics, for example, for precision, bias, outliers and missing data B6. Instrument/Equipment Testing, Inspection, and Maintenance a. Identifies field and laboratory equipment needing Section 4.11 EPA: No comments (1/18/21). Yes periodic maintenance, and the schedule for this Section 4.10 b. Identifies testing criteria Yes Section 4.11 EPA: No comments (1/18/21). Section 4.10 c. Notes availability and location of spare parts Yes Section 4.11 EPA: No comments (1/18/21). Section 4.10 d. Indicates procedures in place for inspecting Yes Section 4.11 EPA: No comments (1/18/21). equipment before usage Section 4.10, Appendix A e. Identifies individual(s) responsible for testing, Yes Section 7.0 EPA: No comments (1/18/21). inspection and maintenance f. Indicates how deficiencies found should be resolved, Yes Section 4.11 EPA: No comments (1/18/21). re-inspections performed, and effectiveness of Section 4.10 corrective action determined and documented and Section 5.0 **B7.** Instrument/Equipment Calibration and Frequency Section 4.10. a. Identifies equipment, tools, and instruments that Yes EPA: No comments (1/18/21). should be calibrated and the frequency for this Section 4.11. calibration Section 4.9. Section 4.10. Appendix A b. Describes how calibrations should be performed and Yes Section 4.10. EPA: No comments (1/18/21). documented, indicating test criteria and standards or Section 4.11, certified equipment Section 4.9. Section 4.10, Appendix A

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c. Identifies how deficiencies should be resolved and documented	Yes	Section 4.10, Section 4.11, Section 4.9, Section 4.10, Appendix A	EPA: No comments (1/18/21).
B8. Inspection/Acceptance for Supplies and Consumables			
a. Identifies critical supplies and consumables for field and laboratory, noting supply source, acceptance criteria, and procedures for tracking, storing and retrieving these materials	Yes	Section 4.12 Section 4.11	EPA: No comments (1/18/21).
b. Identifies the individual(s) responsible for this	Yes	Section 4.12 Section 4.11	EPA: No comments (1/18/21).
B9. Use of Existing Data (Non-direct Measurements)		-	
a. Identifies data sources, for example, computer databases or literature files, or models that should be accessed and used	Yes	Section 2.3	EPA: No comments (1/18/21).
b. Describes the intended use of this information and the rationale for their selection, i.e., its relevance to project	Yes	Section 2.3	EPA: No comments (1/18/21).
c. Indicates the acceptance criteria for these data sources and/or models	Yes	Section 2.3, Section 3.1	EPA: No comments (1/18/21).
d. Identifies key resources/support facilities needed	Yes	Section 2.3	EPA: No comments (1/18/21).
e. Describes how limits to validity and operating conditions should be determined, for example, internal checks of the program and Beta testing	Yes	Section 2.3	EPA: No comments (1/18/21).
B10. Data Management	•	•	•
a. Describes data management scheme from field to final use and storage	Yes	Section 4.7, Section 4.13 Section 4.6, Section 4.12	EPA: No comments (1/18/21).
b. Discusses standard record-keeping and tracking practices, and the document control system or cites other written documentation such as SOPs	Yes	Section 4.13 Section 4.12	EPA: No comments (1/18/21).

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Yes	Section 4.13 Section 4.12	EPA: No comments (1/18/21).
Yes	Section 4.13 Section 4.12	EPA: No comments (1/18/21).
Yes	Section 4.13 Section 4.12	EPA: No comments (1/18/21).
Yes	Section 4.13 Section 4.12	EPA: No comments (1/18/21).
Yes	Section 4.13 Section 4.12; Appendix E	EPA: No comments (1/18/21).
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Yes	Section 5.0	EPA: No comments (1/18/21).
Yes	Section 5.0	EPA: No comments (1/18/21).
Yes	Section 5.0	EPA: No comments (1/18/21).
Yes	Section 5.0	EPA: No comments (1/18/21).
Yes	Section 5.0	EPA: No comments (1/18/21).
Yes	Section 5.0	EPA: No comments (1/18/21).
	Yes Yes	YesSection 4.13 Section 4.12YesSection 5.0YesSection 5.0YesSection 5.0YesSection 5.0YesSection 5.0YesSection 5.0YesSection 5.0

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D. Data Validation and Usability			
D1. Data Review, Verification, and Validation			
Describes criteria that should be used for accepting, rejecting, or qualifying project data	Yes	Section 8.0	EPA: No comments (1/18/21).
D2. Verification and Validation Methods	-		
a. Describes process for data verification and validation, providing SOPs and indicating what data validation software should be used, if any	Yes	Section 8.0	EPA: No comments (1/18/21).
b. Identifies who is responsible for verifying and validating different components of the project data/ information, for example, chain-of-custody forms, receipt logs, calibration information, etc.	Yes	Section 8.0	EPA: No comments (1/18/21).
c. Identifies issue resolution process, and method and individual responsible for conveying these results to data users	Yes	Section 8.0	EPA: No comments (1/18/21).
d. Attaches checklists, forms, and calculations	Yes	Section 8.0; Appendix E	EPA: No comments (1/18/21).
D3. Reconciliation with User Requirements	•	·	
a. Describes procedures to evaluate the uncertainty of the validated data	Yes	Section 8.0	EPA: No comments (1/18/21).
b. Describes how limitations on data use should be reported to the data users	Yes	Section 8.0	EPA: No comments (1/18/21).