

Table 2-6
Select SVOC Analytical Results for Soil Compared to Soil Remediation Standards
Forrest Current-Use Remediation Areas, Garfield Avenue Group
PPG, Jersey City, New Jersey

Grid ID (G1)	Location ID (G2)	Location Elevation (ft NAVD88) (G3, G4)	Sample ID (G5)	Depth Interval (ft bgs) (G6)	Sample Start Elevation (ft NAVD88) (G4, G7)	Sample End Elevation (ft NAVD88) (G4, G8)	Lab ID (G9)	Lab SDG (G9)	Date Collected (G10)	Sample Status (G11, G12)	Sample Type (G13)	Validate d (Y/N) (G14)	ANALYTE CAS RN UNITS RDSCRS NRDCRS		BENZO(A)ANTHRACENE 56-55-3 mg/kg 5 17		BENZO(A)PYRENE 50-32-8 mg/kg 0.5 2		BENZO(B)FLUORANTHENE 205-99-2 mg/kg 5 17		BENZO(K)FLUORANTHENE 207-08-9 mg/kg 45 170		DIBENZO(A,H)ANTHRACENE 53-70-3 mg/kg 0.5 2		INDENO(1,2,3-CD)PYRENE 193-39-5 mg/kg 5 17		NAPHTHALENE 91-20-3 mg/kg 6 17		Specific Notes
													Result (G15, G16)	Qualifier (G17, G18)	Result (G15, G16)	Qualifier (G17, G18)	Result (G15, G16)	Qualifier (G17, G18)	Result (G15, G16)	Qualifier (G17, G18)	Result (G15, G16)	Qualifier (G17, G18)	Result (G15, G16)	Qualifier (G17, G18)	Result (G15, G16)	Qualifier (G17, G18)	Result (G15, G16)	Qualifier (G17, G18)	
CC10B	P4-FOR-CC10B	10.7	P4-FOR-CC10B-3.0-3.5	3.0 - 3.5	7.7	7.2	JC22855-5A	JC22855A	06/23/2016	remaining	N	Y		0.131		0.104		0.144		0.0575		0.0201		0.0781		0.0446		S1	
CC10B	P4-FOR-CC10B	10.7	P4-FOR-CC10B-5.0-5.5	5.0 - 5.5	5.7	5.2	JC22855-6A	JC22855A	06/23/2016	remaining	N	Y		0.0485		0.0491		0.0813		0.0305	J	< 0.016	U	0.0504		0.0754		S1	
CC10B	P4-FOR-CC10B	10.7	P4-FOR-CC10B-7.0-7.5	7.0 - 7.5	3.7	3.2	JC22855-7A	JC22855A	06/23/2016	remaining	N	Y		0.131		0.0912		0.274		0.0763		0.0451		0.165		0.266		S1	
CC10B	P4-FOR-CC10B	10.7	P4-FOR-CC10B-9.0-9.5	9.0 - 9.5	1.7	1.2	JC22855-8A	JC22855A	06/23/2016	remaining	N	Y		0.0217	J	< 0.018	U	< 0.017	U	< 0.018	U	< 0.017	U	< 0.018	U	< 0.011	U	S1	
CC10B	P4-FOR-CC10B	10.7	P4-FOR-CC10B-10.5-11.0	10.5 - 11.0	0.2	-0.3	JC22855-3A	JC22855A	06/23/2016	remaining	N	Y		0.121		0.0768		0.0713		0.0241	J	< 0.018	U	0.0351	J	0.0385	J	S1	
CC10B	P4-FOR-CC10B	10.7	P4-FOR-CC10B-11.0-11.5	11.0 - 11.5	-0.3	-0.8	JC22855-4A	JC22855A	06/23/2016	remaining	N	Y		< 0.011	U	< 0.018	U	< 0.018	U	< 0.018	U	< 0.018	U	< 0.019	U	< 0.011	U	S1	
CC12B	NFS-PDI-CC12B	10.7	NFS-PDI-CC12B-0.0-0.5	0.0 - 0.5	10.7	10.2	JC27321-2A	JC27321A	09/09/2016	remaining	N	Y		0.377				0.68		0.241		0.116	J	0.424		< 0.055	U	S2	
CC12B	NFS-PDI-CC12B	10.7	NFS-PDI-CC12B-2.0-2.5	2.0 - 2.5	8.7	8.2	JC27321-8A	JC27321A	09/09/2016	remaining	N	Y		1.93				2.12		0.742		0.32		1.03		0.784		S2	
CC12B	NFS-PDI-CC12B	10.7	NFS-PDI-CC12B-4.0-4.5	4.0 - 4.5	6.7	6.2	JC27321-10A	JC27321A	09/09/2016	remaining	N	Y		3.9	J			3.7	J	1.21		0.56	J	1.89	J	0.899	J	S2, S3	
CC12B	NFS-PDI-CC12B	10.7	NFS-PDI-CC12B-4.0-4.5X	4.0 - 4.5	6.7	6.2	JC27321-11A	JC27321A	09/09/2016	remaining	FD	Y		0.689	J			0.809	J	0.27	J	0.0919	J	0.412	J	0.165	J	S2	
CC12B	NFS-PDI-CC12B	10.7	NFS-PDI-CC12B-6.0-6.5	6.0 - 6.5	4.7	4.2	JC27321-12A	JC27321A	09/09/2016	remaining	N	Y		< 0.012	U			< 0.018	U	< 0.019	U	< 0.018	U	< 0.019	U	< 0.0236	J	S2	
CC12B	NFS-PDI-CC12B	10.7	NFS-PDI-CC12B-8.0-8.5	8.0 - 8.5	2.7	2.2	JC27321-13A	JC27321A	09/09/2016	remaining	N	Y		< 0.011	U			< 0.018	U	< 0.019	U	< 0.018	U	< 0.019	U	< 0.011	U	S2	
CC12B	NFS-PDI-CC12B	10.7	NFS-PDI-CC12B-8.5-9.0	8.5 - 9.0	2.2	1.7	JC27321-14A	JC27321A	09/09/2016	remaining	N	Y		< 0.011	U			< 0.017	U	< 0.018	U	< 0.017	U	< 0.018	U	< 0.011	U	S2	
CC12B	NFS-PDI-CC12B	10.7	NFS-PDI-CC12B-10.0-10.5	10.0 - 10.5	0.7	0.2	JC27321-3A	JC27321A	09/09/2016	remaining	N	Y		0.833				0.969		0.336		0.134		0.508		0.0971		S2	
CC12B	NFS-PDI-CC12B	10.7	NFS-PDI-CC12B-12.0-12.5	12.0 - 12.5	-1.3	-1.8	JC27321-4A	JC27321A	09/09/2016	remaining	N	Y		0.0646				0.0768		0.0325	J	< 0.016	U	0.0405		< 0.01	U	S2	
CC12B	NFS-PDI-CC12B	10.7	NFS-PDI-CC12B-14.0-14.5	14.0 - 14.5	-3.3	-3.8	JC27321-5A	JC27321A	09/09/2016	remaining	N	Y		< 0.011	U			< 0.017	U	< 0.018	U	< 0.017	U	< 0.018	U	< 0.011	U	S2	
CC12B	NFS-PDI-CC12B	10.7	NFS-PDI-CC12B-16.0-16.5	16.0 - 16.5	-5.3	-5.8	JC27321-6A	JC27321A	09/09/2016	remaining	N	Y		< 0.011	U			< 0.017	U	< 0.018	U	< 0.017	U	< 0.018	U	< 0.011	U	S2	
CC12B	NFS-PDI-CC12B	10.7	NFS-PDI-CC12B-18.0-18.5	18.0 - 18.5	-7.3	-7.8	JC27321-7A	JC27321A	09/09/2016	remaining	N	Y		< 0.01	U			< 0.016	U	< 0.017	U	< 0.016	U	< 0.017	U	< 0.01	U	S2	
CC12B	NFS-PDI-CC12B	10.7	NFS-PDI-CC12B-20.0-20.5	20.0 - 20.5	-9.3	-9.8	JC27321-9A	JC27321A	09/09/2016	remaining	N	Y		< 0.011	U			< 0.017	U	< 0.018	U	< 0.017	U	< 0.018	U	0.0235	J	S2	
CC12B	NFS-PDI-CC12BR	10.5	NFS-PDI-CC12BR-0.5-1.0	0.5 - 1.0	10.0	9.5	JC31705-2A	JC31705A	11/14/2016	remaining	N	Y		0.884				0.852		0.412		0.412		0.412		0.216		S4	
CC12B	NFS-PDI-CC12BR	10.5	NFS-PDI-CC12BR-2.5-3.0	2.5 - 3.0	8.0	7.5	JC31705-8A	JC31705A	11/14/2016	remaining	N	Y		0.538				0.514		0.159		0.0841		0.268		0.106		S4	
CC12B	NFS-PDI-CC12BR	10.5	NFS-PDI-CC12BR-4.5-5.0	4.5 - 5.0	6.0	5.5	JC31705-10A	JC31705A	11/14/2016	remaining	N	Y		0.427				0.387		0.139		0.0662		0.196		0.0504		S4	
CC12B	NFS-PDI-CC12BR	10.5	NFS-PDI-CC12BR-5.0-5.5	5.0 - 5.5	5.5	5.0	JC31705-11A	JC31705A	11/14/2016	remaining	N	Y		< 0.012	U			< 0.018	U	< 0.019	U	< 0.018	U	< 0.019	U	< 0.011	U	S4	
CC12B	NFS-PDI-CC12BR	10.5	NFS-PDI-CC12BR-6.5-7.0	6.5 - 7.0	4.0	3.5	JC31705-12A	JC31705A	11/14/2016	remaining	N	Y		< 0.012	U			< 0.019	U	< 0.02	U	< 0.019	U	< 0.02	U	< 0.012	U	S4	
CC12B	NFS-PDI-CC12BR	10.5	NFS-PDI-CC12BR-6.5-7.0X	6.5 - 7.0	4.0	3.5	JC31705-13A	JC31705A	11/14/2016	remaining	FD	Y		< 0.012	U			< 0.019	U	< 0.02	U	< 0.019	U	< 0.02	U	< 0.012	U	S4	
CC12B	NFS-PDI-CC12BR	10.5	NFS-PDI-CC12BR-8.5-9.0	8.5 - 9.0	2.0	1.5	JC31705-14A	JC31705A	11/14/2016	remaining	N	Y		< 0.011	U			< 0.017	U	< 0.018	U	< 0.017	U	< 0.018	U	< 0.011	U	S4	
CC12B	NFS-PDI-CC12BR	10.5	NFS-PDI-CC12BR-10.5-11.0	10.5 - 11.0	0.0	-0.5	JC31705-3A	JC31705A	11/14/2016	remaining	N	Y		< 0.011	U			< 0.017	U	< 0.018	U	< 0.017	U	< 0.018	U	< 0.011	U	S4	
CC12B	NFS-PDI-CC12BR	10.5	NFS-PDI-CC12BR-12.5-13.0	12.5 - 13.0	-2.0	-2.5	JC31705-4A	JC31705A	11/14/2016	remaining	N	Y		< 0.012	U			< 0.018	U	< 0.019	U	< 0.018	U	< 0.019	U	< 0.012	U	S4	
CC12B	NFS-PDI-CC12BR	10.5	NFS-PDI-CC12BR-14.5-15.0	14.5 - 15.0	-4.0	-4.5	JC31705-5A	JC31705A	11/14/2016	remaining	N	Y		< 0.011	U			< 0.018	U	< 0.019	U	< 0.018	U	< 0.019	U	< 0.011	U	S4	
CC12B	NFS-PDI-CC12BR	10.5	NFS-PDI-CC12BR-16.5-17.0	16.5 - 17.0	-6.0	-6.5	JC31705-6A	JC31705A	11/14/2016	remaining	N	Y		< 0.011	U			< 0.017	U	< 0.018	U	< 0.017	U	< 0.018	U	< 0.011	U	S4	
CC12B	NFS-PDI-CC12BR	10.5	NFS-PDI-CC12BR-18.5-19.0	18.5 - 19.0	-8.0	-8.5	JC31705-7A	JC31705A	11/14/2016	remaining	N	Y		< 0.011	U			< 0.017	U	< 0.018	U	< 0.017	U	< 0.018	U	< 0.011	U	S4	
CC12B	NFS-PDI-CC12BR	10.5	NFS-PDI-CC12BR-20.0-20.5	20.0 - 20.5	-9.5	-10.0	JC31705-9A	JC31705A	11/14/2016	remaining	N	Y		< 0.011	U			< 0.017	U	< 0.018	U	< 0.017	U	< 0.018	U	< 0.011	U	S4	
CC14B	NFS-PDI-CC14B	10.8	NFS-PDI-CC14B-0.5-1.0	0.5 - 1.0	10.3	9.8	JC27804-17A	JC27804A	09/16/2016	remaining	N	Y		0.127	J			0.368		0.104	J	0.0788	J	0.255		< 0.049	U	S2	
CC14B	NFS-PDI-CC14B	10.8	NFS-PDI-CC14B-2.5-3.0	2.5 - 3.0	8.3	7.8	JC27804-19A	JC27804A	09/16/2016	remaining	N	Y		1.2				1.21		0.402		0.181		0.595		0.769		S2	
CC14B	NFS-PDI-CC14B	10.8	NFS-PDI-CC14B-4.5-5.0	4.5 - 5.0	6.3	5.8	JC27804-20A	JC27804A	09/16/2016	remaining	N	Y		0.16				0.22		0.0669		0.0251	J	0.115		0.131		S2	
CC14B	NFS-PDI-CC14B	10.8	NFS-PDI-CC14B-6.5-7.0	6.5 - 7.0	4.3	3.8	JC27804-21A	JC27804A	09/16/2016	remaining	N	Y		0.0975				0.128		0.0540		0.0230	J	0.0850		0.0498		S2	
CC14B	NFS-PDI-CC14B	10.8	NFS-PDI-CC14B-7.5-8.0	7.5 - 8.0	3.3	2.8	JC27804-22A	JC27804A	09/16/2016	remaining	N	Y		< 0.011	U			< 0.017	U	< 0.018	U	< 0.017	U	< 0.018	U	< 0.011	U	S2	
CC14B	NFS-PDI-CC14B	10.8	NFS-PDI-CC14B-8.0-8.5	8.0 - 8.5	2.8	2.3	JC27804-23A	JC27804A	09/16/2016	remaining	N	Y		< 0.011	U			< 0.017	U	< 0.018	U	< 0.017	U	< 0.018	U	< 0.011	U	S2	
CC14B	NFS-PDI-CC14B	10.8	NFS-PDI-CC14B-8.5-9.0	8.5 - 9.0	2.3	1.8	JC27804-24A	JC27804A																					

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ABBREVIATIONS:

ACO - Administrative Consent Order
bgs - below ground surface
CAS RN - Chemical Abstracts Service Registry Number
Cr⁺⁶ - hexavalent chromium
DGA - dense-graded aggregate
FD - field duplicate sample type
Forrest Emanating-From Evaluation - August 2016 *North of Forrest Street Area – Evaluation of Non-CCPW-Related Compounds Emanating from Site 114 (Revision 1)* (AECOM)
Forrest Emanating-From Evaluation Addendum - September 2018 *Forrest Street and Forrest Street Properties Emanating-From Parameters (Revision 1)* (AECOM), as accepted by NJDEP on November 5, 2018
ft - feet
GCCM - geosynthetic cementitious composite mat
HDPE - high-density polyethylene
JCO - Judicial Consent Order
OM/TM - oil material/tar material
mg/kg - milligrams per kilogram
MGP - manufactured gas plant
N - normal sample type
NAVD88 - North American Vertical Datum of 1988
NJDEP - New Jersey Department of Environmental Protection
NRDCSRS - Non-Residential Direct Contact Soil Remediation Standard
PAHs - polycyclic aromatic hydrocarbons
PID - photoionization detector
PSEG - Public Service Electric and Gas Company
RDCSRS - Residential Direct Contact Soil Remediation Standard
SDG - sample delivery group
SRS - Soil Remediation Standard
SVOC - semi-volatile organic compound

QUALIFIERS:

J - The result was an estimated value; the associated numerical value was an approximate concentration of the analyte in the sample.
U - The analyte was not detected above the sample reporting limit shown.

GENERAL NOTES:

G1. "Grid ID" refers to an area, typically 30 ft by 30 ft, identified as Grid Row W through HH (extending west to east) and Grid Column 10B through 17B (extending from south to north).
G2. "Location ID" refers to the location name where samples were collected.
G3. "Location Elevation" refers to the pre-remediation surface elevation for samples collected from the pit bottom, and the surface elevation of the sample location when the sample was collected via boring or test pit.
G4. Elevation vertical datum is NAVD88, in U.S. survey ft.
G5. "Sample ID" refers to the name of a sample collected at a given location and is unique to the depth of the sample collected. The depth listed in the Sample ID may not necessarily correspond to the actual sample depth interval due to corrections made as a result of post-field work review of surveyed surface elevations and/or boring logs. In some cases, the "Sample ID" in the table is a variant of the sample ID in the laboratory report and/or data validation report. In these cases, the "Lab ID" associates the sample results to the laboratory report and/or data validation report.
G6. "Depth Interval" is based on the "Location Elevation."
G7. "Sample Start Elevation" refers to the start of the sample interval. There may be up to 0.1 ft variation between the listed Sample Start Elevation and the elevation calculated using the Location Elevation and Depth Interval due to rounding of the numbers.
G8. "Sample End Elevation" refers to the end of the sample interval. There may be up to 0.1 ft variation between the listed Sample End Elevation and the elevation calculated using the Location Elevation and Depth Interval due to rounding of the numbers.
G9. "Lab ID" refers to the identification number assigned to the sample by the analytical laboratory performing the sample analysis. "Lab SDG" refers to the delivery group number assigned to the sample by the analytical laboratory.
G10. "Date Collected" refers to the date the soil sample was collected.
G11. "Sample Status" of "remaining" indicates the soil in that interval is outside the excavation footprint, and remains in-place at that location.
G12. The 1-ft post-excavation contours representing the as-built terminal excavation elevations are provided on Figure 4-1 through Figure 4-9.
G13. "Sample Type" indicates whether the sample type is normal (N) or a field duplicate (FD).
G14. "Y" indicates that a sample underwent data validation and "N" indicates that data validation was not conducted.
G15. "Result" refers to the analytical result which is reported in mg/kg.
G16. Bold text indicates that the result exceeds the RDCSRS. Bold and italicized text indicates that the result exceeds the NRDCSRS. Non-bold and non-italicized text indicates that the result does not exceed the most stringent SRS.
G17. "Qualifier" refers to the data qualifier assigned by the data validation team reviewing the data from the laboratory for validated data. For unvalidated data, it refers to the qualifier assigned by the laboratory.
G18. Non-detect results are shown on this table using the Method Detection Limit, if available; otherwise they are shown at the Reporting Limit.
G19. Per the ACO/JCO Site Parameters List, benzo(a)pyrene was identified as a parameter emanating from Site 114 onto Forrest Street (but not onto Forrest Street Properties); therefore, benzo(a)pyrene analytical results are reported for samples collected from Forrest Street.

SPECIFIC NOTES:

S1. This sample is remaining in place within the Forrest Street Utility Offset.
S2. This sample is remaining in place within the Forrest Street Alleyway.

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S3. The PAH result(s) for this sample is greater than the RDCSRS. The elevated PAH concentrations in these samples are not related to MGP impacts emanating from Site 114 per the *Supplemental Soil Remedial Investigation Report Final (Revision 1)*, dated August 30, 2018 and approved by NJDEP on October 22, 2018. As these exceedances are not associated with MGP operations, they do not fall under purview of the ACO and JCO and are the responsibility of the property owner.

S4. This sample is remaining in place within the 86/90 Forrest Street Building Footprint.

S5. This sample is remaining in place within the 100 Forrest Street Offset.

S6. In Grid W13B, the naphthalene result for sample FSP-W12B-SW-N-3.5-4.0 exceeds the RDCSRS and NRDCSRS. MGP impacts are identified as emanating from the former Halladay Street Gas Works Plant located within Site 114 into the portion of Forrest Street Properties, as described in both the Forrest Emanating-From Evaluation and the Forrest Emanating-From Evaluation Addendum. Per the ACO and JCO, PPG and/or PSEG are jointly responsible for remediation of the MGP impacts emanating from Site 114. For the current-use remediation, this exceedance is being addressed via engineering controls (HDPE Liner Overlain with DGA and Either an Asphalt Cap or GCCM) and institutional controls (deed notice). For the future residential-use remediation, this sample will be removed via future remedial excavation per the *Conceptual Future Residential-Use Remedial Excavation Plan*, provided in Appendix M.

S7. This sample is remaining in place within the 100 Forrest Street Loading Dock Driveway.

S8. In Grid Y12B, the benzo(a)pyrene results for samples P4-FOR-Y12B-0.5-1.0, P4-FOR-Y12B-4.0-4.5, P4-FOR-Y12B-6.0-6.5, and P4-FOR-Y12BR-0.5-1.0, and the naphthalene result for sample P4-FOR-Y12B-4.0-4.5 are greater than the RDCSRS, but less than the NRDCSRS. MGP impacts are identified as emanating from the former Halladay Street Gas Works Plant located within Site 114 into the portion of Forrest Street adjacent to Site 114 Phase 2B-2, as described in both the Forrest Emanating-From Evaluation and the Forrest Emanating-From Evaluation Addendum. Benzo(a)pyrene may be related to MGP impacts and may also be attributed to historic fill, which is widespread throughout this area. Per the ACO and JCO, PPG and/or PSEG are jointly responsible for remediation of the MGP impacts emanating from Site 114.

This sample was collected from the Southern Portion of the 100 Forrest Street Loading Dock Driveway located within the Forrest Street right of way; however, it may also represent material within the adjacent portion of the 100 Forrest Street Loading Dock Driveway on Forrest Street Properties Block 21501, Lot 14. For Forrest Street and for the current-use remediation of the 100 Forrest Street Loading Dock Driveway (currently used as a non-residential area), these samples are not out of compliance because the results do not exceed the NRDCSRS. The exceedances of the RDCSRS are being documented in a notice in lieu of deed notice/deed notice. For the future residential-use remediation, exceedances in samples P4-FOR-Y12B-0.5-1.0 and P4-FOR-Y12BR-0.5-1.0 will be removed via future remedial excavation per the *Conceptual Future Residential-Use Remedial Excavation Plan*, provided in Appendix M; the exceedances in samples P4-FOR-Y12B-4.0-4.5 and P4-FOR-Y12B-6.0-6.5 will be addressed via engineering controls (capping) and institutional controls (deed notice).

The delineation of MGP-related impacts emanating from Site 114 beyond location P4-FOR-Y12B is achieved through extrapolation in accordance with the *Technical Guidance for Site Investigation of Soil, Remedial Investigation of Soil, and Remedial Action Verification Sampling for Soil* (NJDEP, 2015). The concentration of naphthalene decreases from 1500 mg/kg at sample location TT1308 from 4.5 to 5.0 ft bgs located on Site 114 adjacent to the former MGP (as presented in AECOM's February 2012 *Remedial Investigation Report – Soil, Garfield Avenue Group Non-Residential Chromate Chemical Production Waste Sites 114, 132, 133, 135, 137, 143 and 186, Jersey City, New Jersey*) to 9.23 mg/kg at sample location P4-FOR-Y12B from 4.0 to 4.5 ft bgs on Forrest Street Properties (a 162-fold decrease in concentration). The concentration of benzo(a)pyrene decreases from 580 mg/kg at location TT1308 from 4.5 to 5.0 ft bgs located on Site 114 adjacent to the former MGP (as presented in AECOM's February 2012 *Remedial Investigation Report – Soil, Garfield Avenue Group Non-Residential Chromate Chemical Production Waste Sites 114, 132, 133, 135, 137, 143 and 186, Jersey City, New Jersey*) to 1.84 mg/kg at location P4-FOR-Y12B from 4.0 to 4.5 ft bgs in Forrest Street Properties (a 315-fold decrease in concentration). During the installation of borings for analysis of Cr⁺⁶, OM/TM was not observed and elevated PID readings were not recorded in the borings installed within the 100 Forrest Street Loading Dock Driveway and the 98/100 Forrest Street Building Footprint. Based on the concentration gradient and the field observations, the approximate limits of MGP-related impacts are estimated to extend no further north than the 100 Forrest Street Loading Dock Driveway. In accordance with the *Technical Guidance for Site Investigation of Soil, Remedial Investigation of Soil, and Remedial Action Verification Sampling for Soil* (NJDEP, 2015), the extent of contamination greater than the applicable unrestricted use remediation standard must be confirmed using laboratory analyses prior to the completion of the future residential-use remedial action.

S9. This sample was collected by another party. A data validation memorandum has not been identified.