# I-10 MOBILE RIVER BRIDGE

# GEOTECHNICAL EXPLORATION

AUGUST 24, 2023



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## **1. PURPOSE**

Per the Technical Provisions (TPs) for the Mobile River Bridge (MRB) project dated December 15, 2022, Section 10.3.2.3, a Geotechnical Exploration Plan (GEP) must be submitted to the State Geotechnical Engineer for approval. The following plan presents our understanding of the project, presents our methodology for performing the exploration and laboratory testing program. In addition, it provides a listing of the test boring locations and plans showing the location of the proposed borings.

# 2. SPECIFICATIONS FOR PERFORMING THE WORK

The TPs for the project present a comprehensive list of the standards to be used to design the project. Table 1 presents a listing of these standards. Additional design standards may be needed based on the geotechnical exploration findings. Should conditions be encountered that require design methods/procedures beyond those listed, KMT will work with ALDOT to obtain approval before advancing the design.

No.	Organization	Name
1	AASHTO	LRFD Bridge Design Specifications, 9 <sup>th</sup> Edition
2	FHWA	Geotechnical Engineering Circulars
3	ALDOT	Standard Specifications for Highway Construction
4	ALDOT	General Application Special Provisions
5	ALDOT	Special Provisions for Highway Construction
6	ALDOT	Structural Design Manual
7	AASHTO	Guide for Design of Pavement Structures, 1993 Edition
8	AASHTO	LRFD Bridge Construction Specifications
9	AASHTO	Standard Specifications for Structural Supported Highway Signs, Luminaires, and Traffic
		Signals, 6 <sup>th</sup> edition, Appendix C
10	AASHTO	Guide Design Specifications for Bridge Temporary Work
11	AASHTO	R-13 (Standard Practice for Conducting Subsurface Investigations)

#### Table 1 – Project Design Standards

## 3. RATIONAL FOR PLAN DEVELOPMENT

To develop the attached boring locations and depths, KMT reviewed the existing data and its proximity to the estimated foundation locations for the High-Level Approaches, Primary Bridge, and west interchange bridges. We also evaluated the existing data and its proximity to walls and on-grade roadway widening.

To support our review of existing data, we developed a Boring Location Plan (BLP) in CAD and Google Earth KMZ format, with the boring logs and laboratory test results embedded for quick reference. The boring locations were determined based on review of the current Geotechnical TPs and AASHTO LRFD Bridge Design Specifications, 9<sup>th</sup> Edition. Review of AASHTO Table 10.4.2-1 stipulates that, for deep foundations, a minimum of two borings be performed for structures (bents) with a width of 100 feet or greater. A single boring is acceptable for structures less than 100 feet in width. For retaining walls greater than 100-feet in length, borings spaced 100 to 200 feet apart with locations alternating between front and back of wall are required. Boring depths have been based on AASHTO requirements and our preliminary pile axial capacity calculations. Table 10.4.2-1 was adhered to in development of the GEP.

The Geotechnical Exploration Plan has been developed to meet AASHTO boring spacing and depth criteria, and the TPs boring spacing criteria for previously drilled borings. We expect the number of borings may change because the span lengths for several bridges haven't been finalized.

Data mining from the provided test borings was performed to determine the coefficient of variation for the different strata identified in the test borings. The statistical analyses, based on ASSHTO criteria, indicate too much variation in the strata to justify removing a significant number of borings.

As the exploration progresses, the Geotechnical Exploration Plan may need to be modified for anomalous conditions not anticipated based on review of the geotechnical RID. If such conditions are encountered that could impact construction, KMT will work with ALDOT to modify the exploration plan.

## 4. PROPOSED TEST BORING LOCATIONS

Appendix A provides a table (Boring Assignment Table) with the proposed boring locations, depths, and State Plane coordinates. Each boring has a specific designation based on whether it is for a bridge, wall, soil survey or light pole/sign/ITS. The designations are as follow:

- Bridge BR.(Bridge No)-(Boring No)
  Wall W.(Wall No.)-(Boring No)
- Soil Survey SS-(Boring No)
- Miscellaneous Structures LP-(Light Pole No)

About half of the test borings will be advanced using Wash Rotary drilling techniques (ASTM D5783). Standard Penetration Testing (AASHTO T206) will be performed in conjunction with the wash rotary drilling using calibrated safety hammers. Calibration of the safety hammer energy will occur prior to the start of the project. The SPT sampling frequency will generally include four samples in the top 10-feet of the boring with additional samples every 5-feet to a depth of 100 feet. A 10-foot sample interval will be used below 100 feet until boring termination in each SPT boring except the Anchor Tower borings. The Anchor Tower borings will use a 5-foot sample interval full depth. The Standard Penetration Test (SPT) samples will be field logged by an experienced engineer or geologist in accordance with ASTM D2488-17. The sample interval may be adjusted based on conditions encountered in the borings.

In addition to SPT sampling, Shelby tube (AASHTO T207) and bulk soil samples will be collected from selected borings and depths. The Shelby tube samples will be collected to evaluate strength and compressibility of the tested soils. Bulk soil samples will be used to support the soil survey.

Cone Penetrometer Testing (ASTM D 5778) method may be used to collect geotechnical data for the other half of the exploration locations. Cone Penetrometer Testing (CPT) will only be used where the tools can be pushed to the necessary depths.

Downhole seismic testing will be performed in the main span bridge borings in accordance with ASTM D7400-19. To collect the needed P-wave and S-wave data, the boring will be advanced to the design depth, the completed boring cased, and the annulus grouted. Downhole seismic testing will be performed to calibrate the SPT data against the soil modulus data collected from the seismic testing. The data will also be used to estimate settlement.

Temporary piezometers will be installed in approximately 30 borings located near existing structures, future walls, or embankments, and where changes in the groundwater table could potentially induce settlement. Considering shallow groundwater is anticipated and minimal excavation, piezometer depths of 30-feet or less are estimated.

About 25 of the 177 test borings will be drilled over water. Based on the Mobile Bay Soundings Map developed by the National Oceanic and Atmospheric Administration (NOAA), Chart 11376, it appears the mean low water level depth in Polecat Bay between the existing Bayway bridges ranges between 2 and 4 feet. Estimated barge displacement is about 2 ½ feet. Review of tide information from the Mobile Bay Coast Guard Station indicates between 1 to 2 feet of daily tide variation.

A typical geotechnical drilling barge displaces about 2 ½ feet of water. Therefore, moving of the barges may be limited to high tide in the Bayway portion of the project based on the available data. Further, we expect there will be areas that will not be accessible to a barge. A track mounted amphibious drill rig designed to operate in shallow water and/or soft soil conditions will be used to drill the 5 SPT borings in the marsh. This rig exerts between 100 and 200 psf ground pressure and may also be used to drill borings where shallow water prevents access to a barge.

## 5. OVER WATER DRILLING METHODOLOGY

The geotechnical investigation program includes bores along the entire length of the project including those in jurisdictional Waters of the US (wetlands, the Mobile River, and Polecat Bay). A USACE Nationwide Permit 6 will be needed to complete the over water work.

The over water borings will be located using a hand-held GPS unit. Measurements from the existing Bayway bridges substructures will be obtained to support the GPS locations. After a boring is located, the barge will be positioned, and the casing installed into the underlying bay mud. A reflector will be installed on the casing and the elevation and coordinates of the casing will be measured using land based total station surveying equipment. This method will provide for the level of accuracy called for in the TP's (+/- 1 foot horizontally and 0.5 feet vertically).

A total of 25 rotary wash borings will be drilled over water and five will be drilled in a marsh. To drill a rotary wash boring, 4-inch diameter casing is seated into the bay mud. The rotary drilling tools are then inserted through the casing. As the rotary tools are advanced, water is pumped through the drill bit to wash the cuttings to the surface through the casing. The water and cuttings are deposited in a "mud tub" that has a baffle allowing sediment to settle and the water to be recycled back into the test boring.

Drilling "mud" will be mixed in the water to provide hole stabilization below the level of the casing. The drilling "mud" will be a polymer based binding agent that is biodegradable such as Min-U-Gel or Florigel. A Safety Data Sheet for this product has been included in Appendix C.

We estimate about ½ to 2 cubic yard of drill cuttings will be generated for each test boring. Further, we estimate about 100 to 300 gallons of drilling fluid (water and polymer gel) will be generated per boring. The drilling fluid may be used on multiple days, but the drill cuttings will be placed in 5-gallon buckets and disposed of in a lined roll-off box or a lined excavation off-site. The drilling fluid will also be disposed of periodically in the roll-off box. The materials in the roll-off box will be emptied periodically in an off-site area that has yet to be determined.

## 6. BOREHOLE ABANDONMENT

AASHTO does not provide a borehole abandonment procedure. Landside borings will be backfilled with a neat cement grout from the bottom up. Environmental sampling and off-site disposal of soil cuttings and drill water from previously identified contaminated sites may be required based on a full review of environmental conditions. Abandoned borings will be revisited 24 to 48 hours after grouting to inspect for settlement and will be topped off if needed. Borings over water will be abandoned without backfilling.

The soil cuttings from borings drilled on greenfield or non-contaminated sites will be disposed of on site. The soil cuttings will be dumped on the existing ground surface, spread out using a rake, and then seed and straw placed over the disturbed area. The drill water will be slowly released from the mud tub with intention to prevent water from flowing off-site.

# 7. LABORATORY TESTING PROGRAM

A comprehensive laboratory testing program will be performed in conjunction with the geotechnical exploration. Table 2 presents a listing of the test methods to be used and the estimated test quantities. The index property and corrosion test number estimate are based on the percentage of total samples collected, but the actual assignment of tests will be based on visual classification of the samples.

Laboratory Test	ASTM/ASHTO	Percent of	Estimated
	Designation	Samples Tested	Quantity of Tests
Moisture Content	AASHTO T265	50	4000
Atterberg Limits	AASHTO T89, T90	10	800
Grain Size	AASHTO T88	15	1200
Wash 200	ASTM D1140	15	1200
Proctor	AASHTO	*	10
	T99/T180		
Resilient Modulus	AASHTO T274 (2)	*	5
Specific Gravity	AASHTO T100	**	80
Consolidation	AASHTO T216	*	25

	Table	2 –	Labora	tory	Testing	Program
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Laboratory Test	ASTM/ASHTO	Percent of	Estimated
	Designation	Samples Tested	Quantity of Tests
UU	AASHTO T296	*	45
CU w/PP	AASHTO T296	*	10
Direct Shear	AASHTO T236	*	10
Corrosion Suite		1	80
● pH	AASHTO T289		
<ul> <li>Electrical Resistivity</li> </ul>	AASHTO T288		
• Chloride, soil	AASHTO T291		
• Sulfate, soil	AASHTO T289		

\*Testing frequency to be determined based on subsurface conditions and visual review of soil samples.

\*\*Testing to be performed on soil strength and compressibility testing.

# 8. NATIONWIDE 6 PERMIT

A USACE Nationwide Permit (NWP) 6 – Survey Activities is required for the GEP activities in Waters of the US. Based on direction from ALDOT and the USACE, one NWP 6 will cover the activities in this GEP as well as any load tests conducted in Waters of the US. ALDOT will be the permittee. The USACE has requested that ALDOT submit a Preconstruction Notification (PCN) in advance of the work. KMT will submit the completed PCN to ALDOT, and once approved, ALDOT will submit to the USACE. A Clean Water Act Section 401 Water Quality Certification (WQC) and a Coastal Zone Management (CZM) consistency determination are automatically granted with this permit. The WQC authorization includes special conditions, while the CZM has no additional conditions. KMT will also follow the Environmental Commitments from the FEIS/ROD to complete this work, including updated commitments from consultation with US Fish and Wildlife Service. Appendix D presents a listing of the general conditions of the Nation Wide 6 Permit.

There is known contamination in the general locations of the bores in the Mobile River. A BMP plan will be developed and followed for both the environmental and geotechnical sampling operation. Drilling fluid and cuttings will be collected and disposed of in accordance with best practices based on sampling results.

## 9. OTHER PERMITS / ALDOT REQUIREMENTS

Following is a discussion of permits that are identified in the ALDOT Geotechnical Manual (for reference only).

• **Property Access and Right-of-Entry Permit** – KMT will submit a map, list of properties, and the nature of work for each property where access is required to the Right-of-Way office. Field work can't proceed until a right-of-entry permit for impacted properties is obtained. Permit will include the need for clearing and grading.

- **Stormwater Discharge Permit** –Based on discussions with the Alabama Department of Environmental Management, an NPDES permit will not be required for this operation.
- Boring Location Layout and Survey KMT will locate the land-based test borings using handheld GPS at the approximate locations presented in Appendix A after ALDOT provides a Right of Entry Permit. After drilling, the boring locations will be surveyed to get specific coordinates and elevations. The over water borings will be located as described in Section 5.
- Utility Locates and Clearance The initial step is for the drilling firm to contact Alabama 811 (OneCall) for a specific or a group of borings and obtain a location ticket to be provided to Kiewit Engineering. Kiewit Engineering will also contact Alabama 811 and obtain a ticket before drilling begins. We will also update the tickets based on the drilling schedule to assure they are valid at the time of drilling. The tickets will be maintained for the project duration.

Ground Penetrating Radar (GPR) and Electromagnetics (EM) will be performed at each boring location in accordance with the KMT MBR Utility Avoidance Safety Plan. Where utilities are mapped or identified through GPR and EM within 25 feet of a boring, potholing will be required to expose the identified utility. In some instances, slot trenches will be excavated using dry or wet vac procedures to reduce the risk of damaging an unknown utility within the designated area.

To support boring location, we have superimposed the ALDOT provided utility locations onto Kiewit Engineering's Boring Location Plan. We understand that most of the utilities shown on the drawing have not been field verified.

# 10. EROSION CONTROL

The Alabama Handbook for Erosion Control, Sediment Control, and Stormwater Management on Construction Sites and Urban Areas ("Alabama Handbook") will be used to develop Best Management Practices for drilling of test borings. An operations-specific BMP Plan will be prepared by an ADEM recognized Qualified Credentialed Professional (QCP) in accordance with the Water Quality Certification (WQC). Weekly comprehensive site inspections will be conducted to ensure that BMPs are effective for the protection of water quality. Environmental Compliance Inspectors will monitor the BMP's daily, and they will be maintained until stabilization of disturbed areas is completed.

# 11. TRAFFIC CONTROL PLANS

Traffic control plans will be completed in accordance with the Manual on Uniform Traffic Control Devices (MUTCD FHWA current addition) for Streets and Highways. Kiewit Engineering intends to subcontract traffic control services along with the preparation of the traffic control plans. Completed traffic control plans will be reviewed by Kiewit Engineering to verify they meet the requirements of the MUTCD. Kiewit Engineering's field exploration manager will verify the plan is being correctly implemented in the field.

A project roadway closure plan has been developed. This plan has been provided to the Kiewit Engineering traffic control contractor and traffic control plans are currently being developed. These plans include two to four drill rigs working within a single work zone to reduce the total closure time.

# 12. HEALTH AND SAFETY PLAN

Safety is paramount to how Kiewit Engineering conducts business. Kiewit Engineering is prequalifying our partner geotechnical firms. Each firm is required to submit their Health and Safety Plan (HASP) that must include topics specified in a prequalification package provided by Kiewit Engineering. A copy of the Subcontract Health, Safety, Environmental Prequalification Information request form has been included in Appendix B. Upon receipt of the HASP, Kiewit Engineering Health and Safety personnel will review the plan and provide our comments. A meeting between Kiewit Engineering Health and Safety personnel and our geotechnical partners may also occur depending on the plan's complexity and the project related risks like over-water drilling.

# **APPENDIX A**

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# BORING ASSIGNMENT TABLE BORING LOCATION PLANS

Devine ID	Duilling Mathad	Firms	Danath (fa)	Fasting	Nouthing	Latituda	Lougitudo	1 /14/
BORING ID		Firm		Easting	Northing		Longitude	
BR01-01	CPT	SES	150	1795697.186	243100.1084	30.6672777	-88.0496315	Land
BR01-02	SPT	GEI	150	1795574.118	243210.0248	30.6675783	-88.0500247	Land
BR01-03	SPT	SES SPT	150	1795676.866	243196.8769	30.6675435	-88.0496977	Land
BR01-04	CPT	SES	150	1/95656./36	243330.7995	30.6679114	-88.0497638	Land
BR01-05	SPT	SES SPT	150	1795838.34	243302.1466	30.6678351	-88.0491857	Land
BR03-01	SPT	SES SPT	150	1795952.118	243588.7282	30.6686246	-88.0488283	Land
BR03-02	CPT	SES	150	1/96059.538	243/40.41/9	30.6690431	-88.048489	Land
BR05-01	SPT	GEI	150	1/96560.201	244467.1088	30.6/104//	-88.0469078	Land
BR05-02	СРТ	SES	150	1796646.837	244457.149	30.6710215	-88.0466321	Land
BR05-03	СРТ	SES	150	1796674.27	244621.6204	30.6714741	-88.0465474	Land
BR05-04	SPT	GET	150	1796750.47	244614.63	30.6714559	-88.0463049	Land
BR07-01	SPT	Challenge	150	1797219.517	245648.8257	30.6743055	-88.044829	Land
BR07-02	SPT	Challenge	150	1797290.809	245821.8571	30.6747822	-88.0446049	Land
BR08-01	SPT	SES SPT	150	1797182.982	244902.1114	30.672252	-88.0449337	Land
BR08-02	СРТ	SES	150	1797237.859	244976.3152	30.6724568	-88.0447603	Land
BR08-03	SPT	SES SPT	150	1797289.811	245053.7696	30.6726704	-88.0445962	Land
BR08-04	СРТ	SES	150	1797336.639	245134.3863	30.6728927	-88.0444485	Land
BR08-05	SPT	GET	150	1797382.676	245215.4847	30.6731163	-88.0443033	Land
BR08-06	СРТ	SES	150	1797423.347	245299.3793	30.6733475	-88.0441753	Land
BR08-07	SPT	GET	150	1797460.097	245385.1229	30.6735837	-88.0440597	Land
BR08-08	CPT	SES	150	1797470.142	245482.5957	30.6738518	-88.0440292	Land
BR08-09	SPT	Challenge	150	1797495.942	245571.8785	30.6740977	-88.0439485	Land
BR08-10	CPT	SES	150	1797519.164	245665.9132	30.6743565	-88.0438761	Land
BR08-11	СРТ	SES	150	1797565.607	245844.021	30.6748468	-88.0437312	Land
BR08-12	SPT	Challenge	150	1797581.41	245932.4579	30.6750902	-88.0436822	Land
BR08-13	CPT	SES	150	1797607.128	246109.2861	30.6755767	-88.0436032	Land
BREHLA-01	SPT	AM	150	1801202.295	250960.673	30.6889623	-88.0322407	Land
BREHLA-02	СРТ	SES	150	1801234.917	250914.6952	30.6888364	-88.0321362	Land
BREHLA-03	СРТ	SES	150	1801332.787	251053.2583	30.6892186	-88.0318269	Land
BREHLA-04	SPT	AM	150	1801365.409	251007.2805	30.6890926	-88.0317224	Land
BREHLA-05	SPT	AM	150	1801507.512	251178.6609	30.6895656	-88.031273	Land
BREHLA-06	СРТ	SES	150	1801540.81	251131.7299	30.689437	-88.0311663	Land
BREHLA-07	СРТ	SES	150	1801680.998	251305.8088	30.6899175	-88.030723	Land
BREHLA-08	SPT	AM	150	1801716.211	251256.1793	30.6897815	-88.0306102	Land
BREHLA-09	SPT	AM	150	1801811.581	251399.5177	30.6901768	-88.0303089	Land
BREHLA-10	CPT	SES	150	1801848.826	251344.5769	30.6900262	-88.0301896	Land
BREHLA-11	CPT	SES	150	1801948.072	251486.5751	30.6904179	-88.029876	Land
BREHLA-12	SPT	AM	150	1801982.187	251429.6377	30.6902618	-88.0297666	Land
BREHLA-13	SPT	AM	150	1802120.095	251507.1086	30.6904766	-88.0293291	Land
BREHLA-14	SPT	AM	150	1802234.576	251637.1375	30.6908356	-88.0289668	Land
BREHLA-15	CPT	SES	150	1802262.12	251576.7471	30.6906699	-88.0288783	Land
BREHLA-16	CPT	SES	150	1802383.692	251700.1714	30.6910108	-88.0284934	Land
BREHLA-17	CPT	SES	150	1802526.246	251751.5276	30.6911539	-88.0280406	Land
BREHLA-18	SPT	AM	150	1802547.1	251688.5138	30.6909809	-88.0279733	Land
BREHLA-19	CPT	SES	150	1802700.111	251709.0329	30.6910393	-88.0274869	Land
BREHLA-20	CPT	SES	150	1802823.935	251815.7574	30.6913343	-88.0270945	Land
BREHLA-21	SPT	SES SPT	150	1802838.728	251747.7493	30.6911475	-88.0270465	Land
BREHLA-22	CPT	SES	150	1802971.769	251903.8902	30.6915785	-88.0266255	Land
BREHLA-23	SPT	SES SPT	150	1802988.353	251800.1869	30.6912936	-88.0265712	Land
BREHLA-24	SPT	GET	150	1803136.812	251894.3454	30.6915544	-88.0261003	Land
BREHLA-25	CPT	SES	150	1803144.06	251824.219	30.6913617	-88.0260762	Land
BREHLA-26	СРТ	SES	150	1803287.882	251918.1691	30.6916219	-88.0256201	Land
BREHLA-27	SPT	GET	150	1803292.243	251832.0945	30.6913853	-88.0256049	Land
BREHLA-28	SPT	AM	150	1803433.737	251890.9075	30.6915488	-88.0251556	Marsh
BREHLA-29	SPT	Challenge	150	1803433.771	251835.7225	30.6913971	-88.0251547	Land
BREHLA-30	SPT	AM	150	1803579.707	251921.3488	30.6916344	-88.0246917	Marsh
BREHLA-32	SPT	AM	150	1803773.984	251878.2359	30.6915183	-88.024073	Land
BREHLA-33	SPT	Challenge	150	1803728.997	251779.9417	30.6912475	-88.0242147	Land
BREHLA-34	SPT	AM	150	1803905.594	251864.6048	30.6914825	-88.0236541	Marsh

Differ         Ann         Differ         Differ <thdiffer< th=""></thdiffer<>	Boring ID	Drilling Method	Firm	Denth (ft)	Fasting	Northing	Latitude	Longitude	1/1/
Inst. Hards         John         Lob         Hole				150	1002001 020	2E1000 0E2	20 6012201	00 022607	March
Institutions         Description         Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>			Challongo	150	1904059 226	251808.855	20 60120	00 0221677	Wator
International         Description         Description         Description         Description         Description         Description           BREILLA3         SPT         Challenge         100         1804187/144         25171.1201         30.091186         -88.0220728         Water           BREILLA43         SPT         Challenge         100         1804187/1744         25173.1201         30.091186         -88.0221728         Water           BREILLA44         SPT         Challenge         100         1804184.379         251644.674         30.0500934         -88.0221171         Water           BREILLA43         SPT         Challenge         150         180449.481         23161.066         30.0500977         -88.021171         Water           BREILLA45         SPT         Challenge         150         180462.2723         25152.5512         30.6606573         -88.021367         Water           BREILLA48         SPT         Challenge         150         180476.094         25152.5512         30.6606575         -88.020136         Water           BREILLA48         SPT         Challenge         150         180623.552         25142.496         30.6905050         88.020136         Water           BREILLA48         SPT <td< td=""><td></td><td></td><td>Challenge</td><td>150</td><td>1804038.320</td><td>251850.2441</td><td>20 6012225</td><td>-88.0231077</td><td>Water</td></td<>			Challenge	150	1804038.320	251850.2441	20 6012225	-88.0231077	Water
IMPRINA         Description         Description <thdescription< th=""> <thdescription< th=""> <th< td=""><td></td><td></td><td>Challenge</td><td>150</td><td>1804044.910</td><td>251709.3832</td><td>20 6012842</td><td>-88.0232035</td><td>Water</td></th<></thdescription<></thdescription<>			Challenge	150	1804044.910	251709.3832	20 6012842	-88.0232035	Water
Institution         Description         Description         Description         Description           BREHLA41         SPT         Challenge         150         180438.379         251684.674         30.0609934         48.0221018         Water           BREHLA421         SPT         Challenge         150         180438.379         251684.674         30.0609934         48.0221018         Water           BREHLA44         SPT         Challenge         150         1804493.482         25164.505         30.0690575         48.0221317         Water           BREHLA44         SPT         Challenge         150         1804602.727.2         2130.505674         48.022367         Water           BREHLA45         SPT         Challenge         150         180462.277.2         21552.5512         30.06905016         48.0202767         Water           BREHLA48         SPT         Challenge         150         180476.094         21512.555         30.06905016         48.0202767         Water           BREHLA48         SPT         Challenge         150         1805230.532         21424.449         30.690333         48.0201336         Water           BREHLA53         SPT         Challenge         150         1805230.522         21483.228			Challenge	150	1804213.308	251731.0503	30.6912845	-88.0220075	Water
Instruct         SPT         Challenge         Loc         Loc        <	BREHLA-40		Challenge	150	1804197.714	251731.2301	30.6911190	-00.0227220	Water
Internet         SPT         Challenge         L30         Adv:rsi:0:1         21100-10-17         300:000000         e80:0217028         Water           BRFHLA-43         SPT         Challenge         150         180:449.348         25163.4505         30.690897         -88.0217618         Water           BRFHLA-43         SPT         Challenge         150         180:460.27         25164.505         30.690897         -88.021367         Water           BRFHLA-45         SPT         Challenge         150         180:473.042         25155.2512         30.6907442         -88.022367         Water           BRFHLA-43         SPT         Challenge         150         180:474.032         25155.2512         30.6900734         -88.020336         Water           BRFHLA-51         SPT         Challenge         150         180:573.236         51:424.09575         30.6900133         -88.0129140         Water           BRFHLA-51         SPT         Challenge         150         180:573.256         51:424.093         30.690133         -88.012914         Water           BRFHLA-52         SPT         Challenge         150         180:523.256         21:386.637         30.690127         -88.013919         Water           BRFHLA-52			Challenge	150	1904207.334	251745.5240	20,600024	-00.0221014	Water
Internet         SPT         Challenge         1.30         1.80/430.3         2.0107.005         3.03210.3         9.80.2176.8         Water           BREHLA-44         SPT         Challenge         1.50         1.80/449.344         2.5164.192         30.690897         -88.02176.18         Water           BREHLA-45         SPT         Challenge         1.50         1.80/470.324         2.5166.6041         30.6907842         -88.02267         Water           BREHLA-47         SPT         Challenge         1.50         1.80/470.4092         2.5155.512         30.6906736         -88.020376         Water           BREHLA-48         SPT         Challenge         1.50         1.80/470.4092         2.5156.0755         30.6906736         -88.0203.86         Water           BREHLA-39         SPT         Challenge         1.50         1.80/350.22         2.5138.118         30.690131         -88.019402         Water           BREHLA-52         SPT         Challenge         1.50         1.80/350.22         2.5138.4125         30.690131         -88.019019         Water           BREHLA-53         SPT         Challenge         1.50         1.80/350.22         2.5138.41256         30.690121         -88.0149021         Land			Challenge	150	1004546.579	251664.0474	20 6010122	-00.0222420	Water
BARTHL-W3         SPT         Challenge         130         130/493/340         23/163/362         30/690697         480/2171         Water           BRFHL-45         SPT         Challenge         150         180/460.872         251/648.192         30/690697         480/21311         Water           BRFHL-45         SPT         Challenge         150         180/476.094         25155.2512         30.690734         480.02756         Water           BREHL-44         SPT         Challenge         150         180/476.094         25155.2512         30.6906736         480.02768         Water           BREHL-49         SPT         Challenge         150         180/928.23         25154.0957         30.6906736         480.01314         Water           BREHL-52         SPT         Challenge         150         180527.356         251442.1449         30.690338         -88.019347         Water           BREHL-52         SPT         Challenge         150         180526.332         25144.125         30.690141         -88.019347         Water           BREHL-52         SPT         Challenge         150         1805503.33         251462.1449         30.690127         +88.0185573         Water           BREHL-55         SPT			Challenge	150	1804318.134	251091.0009	30.0910133	-00.0217020	Water
Date:H1A-45         SPT         Challenge         130         130/4602.71         23108.122         30.6900744         48.0213687         Water           BREHLA-45         SPT         Challenge         150         1804462.712         251095.6041         30.690744         488.0213687         Water           BREHLA-47         SPT         Challenge         150         1804487.237         251565.0755         30.6906736         488.020376         Water           BREHLA-48         SPT         Challenge         150         1805401.016         251524.0866         30.6906736         +88.020386         Water           BREHLA-51         SPT         Challenge         150         1805492.84         251472.0865         30.6904344         +88.01919         Water           BREHLA-52         SPT         Challenge         150         1805360.122         251342.1449         30.690334         +88.019012         Water           BREHLA-54         SPT         Challenge         150         1805360.122         251338.118         30.690454         +88.013617         Water           BREHLA-54         SPT         Challenge         150         1805360.122         251338.1257         30.630054         +88.013617         Water           BREHLA-54 <td></td> <td></td> <td>Challenge</td> <td>150</td> <td>1804499.546</td> <td>251054.505</td> <td>20.0908275</td> <td>-00.0217010</td> <td>Water</td>			Challenge	150	1804499.546	251054.505	20.0908275	-00.0217010	Water
DRT(HL-4-5)         SPT         Challenge         130         180/462.7/2.1         21393-36.81         30.690742         -88.020921         Water           BREHLA-4         SPT         Challenge         150         180/473.304         25165.0575         30.6900732         -88.020921         Water           BREHLA-4         SPT         Challenge         150         180/887.237         5155.0575         30.6900742         -88.020356         Water           BREHLA-40         SPT         Challenge         150         180/922.84         2514/0.5975         30.6900432         -88.019305         Water           BREHLA-51         SPT         Challenge         150         180/52.7356         251388.6437         30.6900191         -88.019402         Water           BREHLA-53         SPT         Challenge         150         180/52.97.257.356         251388.6437         30.6900191         -88.019910         Water           BREHLA-55         SPT         Challenge         150         180/52.97.257.452         30.690127         -88.0198107         Water           BRWHLA-02         CPT         SES         150         1797238.672         42510.4765         30.6742353         -88.0449201         Land           BRWHLA-02         CPT <td>DREILLA-44</td> <td>SPT</td> <td>Challenge</td> <td>150</td> <td>1804640.877</td> <td>251046.192</td> <td>30.090897</td> <td>-00.0213117</td> <td>Water</td>	DREILLA-44	SPT	Challenge	150	1804640.877	251046.192	30.090897	-00.0213117	Water
BRCHLA-R0         SPT         Challenge         LD0         180-703-00         2100000-11         300.590750         380.002756         Water           BREHLA-R4         SPT         Challenge         150         180/4706.094         215.5512         30.6906753         -88.020257         Water           BREHLA-S0         SPT         Challenge         150         18004922.84         251470.5975         30.6900131         -88.021364         Water           BREHLA-S1         SPT         Challenge         150         1805223.56         251482.1149         30.6900131         -88.019404         Water           BREHLA-S2         SPT         Challenge         150         1805239.56         251388.6437         30.6900154         -88.019404         Water           BREHLA-S2         SPT         Challenge         150         1805239.56         251386.6437         30.6900564         -88.019474         Water           BREHLA-S5         SPT         Challenge         151         180550.535         251364.1256         30.690127         -88.018517         Water           BRWHLA-01         SPT         GET         150         1797386.02         24565.7068         30.6734255         -88.044201         Land           BRWHLA-03 <t< td=""><td></td><td></td><td>Challenge</td><td>150</td><td>1804022.721</td><td>251595.5261</td><td>20,6007942</td><td>-00.0213007</td><td>Water</td></t<>			Challenge	150	1804022.721	251595.5261	20,6007942	-00.0213007	Water
BARTLAUAT         SPT         Challenge         130         12037231         30.0890533         -88.0205267         Water           BREHLA-49         SPT         Challenge         150         1808812.37         215650755         30.6900510         -88.020133         Water           BREHLA-50         SPT         Challenge         150         1809292.84         51544.0386         -0.6900333         -88.019305         Water           BREHLA-51         SPT         Challenge         150         1805237.257         52.1442.1449         30.6900131         -88.019402         Water           BREHLA-52         SPT         Challenge         150         1805239.586         251388.6437         30.690127         -88.019019         Water           BREHLA-55         SPT         Challenge         151         1805505.34         25134.1256         30.690127         -88.019019         Water           BRWHLA-02         CPT         SES         150         179728.729         24530.4765         30.673559         -88.0447025         Land           BRWHLA-02         CPT         SES         150         1797373.051         245495.386         30.6732849         -88.0443021         Land           BRWHLA-03         CPT         SES			Challenge	150	1804705.504	251000.0041	20,6006252	-00.020921	Water
International Section         International Sectional Section         International Sectional Section         International Sectional Section         International Sectional Sectional Section Section         International Sectional Sectional Section Section Section Section Sectional Sectional Section			Challenge	150	1004740.094	251552.5512	20,6006716	-00.0209750	Water
BRHLHA-S0         SPT         Challenge         150         180/01/02         21124.705975         30.6590/132         488.0211340         Water           BREHLA-S1         SPT         Challenge         150         180/01392         321470.5975         30.6590/132         488.0211344         Water           BREHLA-S2         SPT         Challenge         150         180/5239.866         251388.437         30.6900544         488.0193474         Water           BREHLA-S5         SPT         Challenge         150         180/5239.866         25138.6437         30.690054         488.0185573         Water           BREHLA-S5         SPT         Challenge         151         180/540.966         25130.66003         30.693054         488.048251         Land           BRWHLA-01         SPT         Challenge         150         1797188.671         24537.4529         30.6733845         488.0447601         Land           BRWHLA-02         CPT         SES         150         1797295866         245319.5313         30.6738849         488.0445401         Land           BRWHLA-04         SPT         Challenge         150         179730.561         24542.502         30.6747387         488.0445401         Land         BRWHA-04         SPT			Challenge	150	1905010 61	251505.0755	20,6005605	-00.0205207	Water
BRHLA-51         SPT         Challenge         150         160/932.44         25148.128         30.6904494         -88.0197405           BREHLA-52         SPT         Challenge         150         1805237.356         25148.124         30.6901494         -88.019405         Water           BREHLA-53         SPT         Challenge         150         1805237.356         25148.124         30.690191         -88.019402         Water           BREHLA-54         SPT         Challenge         150         1805350.354         25138.6437         30.690191         -88.018507         Water           BREHLA-56         SPT         Challenge         151         1805360.122         25136.6053         30.699986         -88.0186177         Water           BRWHLA-01         SPT         GET         150         179718.671         24537.4529         30.6738849         -88.0447001         Land           BRWHLA-03         CPT         SES         150         179730.521         24563.7686         30.674285         -88.044301         Land           BRWHLA-05         SPT         Challenge         150         179730.521         24563.7686         30.6742736         -88.0443281         Land           BRWHLA-06         SPT         Challenge <td>BREHLA FO</td> <td></td> <td>Challenge</td> <td>150</td> <td>1804002.84</td> <td>251524.0960</td> <td>30.0905005</td> <td>-88.0201330</td> <td>Water</td>	BREHLA FO		Challenge	150	1804002.84	251524.0960	30.0905005	-88.0201330	Water
BRHLH-21         SPT         Challenge         150         1802527.356         21442.143         30.6903383         388.0193474         Water           BREHLA-52         SPT         Challenge         150         1802527.356         251388.1847         30.6903383         488.0193474         Water           BREHLA-55         SPT         Challenge         150         1805503.334         251341.1256         30.6900564         488.0198177         Water           BRHLA-55         SPT         Challenge         151         1805503.334         251364.1256         30.673559         -88.0447601         Land           BRWHLA-01         SPT         GET         150         179728.066         251304.1257         30.673550         -88.0447601         Land           BRWHLA-02         CPT         SES         150         179730.523         245637.633         30.6734855         -88.0444301         Land           BRWHLA-04         SPT         GET         150         179730.523         245637.680         30.6742736         -88.0443032         Land           BRWHLA-06         CPT         SES         150         179736.561         24562.7580         30.6747287         -88.0443032         Land           BRWHLA-06         SPT			Challenge	150	1004992.04	251470.5975	20,6004132	-00.0201094	Water
BREHLA-S1         SPT         Challenge         150         100:237:336         25:142:1413         30.090131         -88.01394/14         Water           BREHLA-S4         SPT         Challenge         150         1805360.122         25:1338.137         30.090121         -88.01304/23         Water           BREHLA-S6         SPT         Challenge         151         180505.334         25:1348.1437         30.690127         -88.01365/73         Water           BRWHLA-01         SPT         Challenge         152         180546.096         25:1306.6053         30.699966         -88.01467.17         Water           BRWHLA-01         SPT         GET         150         1797139.72         245307.4529         30.6734855         -88.0447601         Land           BRWHLA-03         CPT         SES         150         1797309.587         244593.306         30.6734854         -88.044301         Land           BRWHLA-05         SPT         Challenge         150         179730.523         245632.400         30.6747857         -88.0443032         Land           BRWHLA-06         CPT         SES         150         1797363.651         245622.4752         30.6747857         -88.0443032         Land           BRWHLA-10 <td< td=""><td></td><td></td><td>Challenge</td><td>150</td><td>1805155.965</td><td>251465.1216</td><td>30.0904494</td><td>-88.0197405</td><td>Water</td></td<>			Challenge	150	1805155.965	251465.1216	30.0904494	-88.0197405	Water
BRHLA-35         SPT         Challenge         150         1003393-300         23380.0437         30.690054         -88.0139432         water           BRHLA-55         SPT         Challenge         151         1800360.12         251339.127         30.690056         -88.0136573         Water           BRHLA-55         SPT         Challenge         152         1800460.05         251306.0533         30.689968         -88.018573         Water           BRWHLA-01         SPT         Challenge         152         1800446.02         24530.04765         30.673550         -88.0447021         Land           BRWHLA-02         CPT         SES         150         179728.666         245519.5313         30.6732506         -88.0447021         Land           BRWHLA-04         SPT         GET         150         179736.561         245642.502         30.6742736         -88.0443021         Land           BRWHLA-05         SPT         Challenge         150         179740.747         245642.502         30.6742735         -88.044063         Land           BRWHLA-06         CPT         SES         150         1797437.338         245962.9449         30.6751721         -88.0443021         Land           BRWHLA-10         CPT	BREHLA-52	SPT	Challenge	150	1805257.356	251442.1449	30.6903383	-88.0193474	Water
BREHLA-S5         SPT         Challenge         150         100330.122         23333.127         30.090127         38.01903         water           BREHLA-S6         SPT         Challenge         151         100505.354         251364.125         30.690127         48.0186577         Water           BRWHLA-01         SPT         GET         150         1797188.671         245377.4529         30.673855         -88.0449229         Land           BRWHLA-02         CPT         SES         150         1797238.727         245330.475         30.6738450         -88.0447025         Land           BRWHLA-03         CPT         SES         150         1797309.587         245936.396         30.6738450         -88.044301         Land           BRWHLA-06         SPT         Challenge         150         179730.521         245642.8502         30.674751         -88.044302         Land           BRWHLA-06         CPT         SES         150         1797437.38         245962.9449         30.6757121         -88.04302         Land           BRWHLA-06         SPT         Challenge         150         1797437.38         245962.9449         30.6757121         -88.043921         Land           BRWHLA-10         CPT         SES<	BREILA-55	SPT	Challenge	150	1805259.580	251388.0437	30.090191	-88.0194032	Water
DR.F.(LA-S5         SPT         Challenge         151         Leosyability         25130-1.230         30.8030.27         -88.0.4337.4         Water           BRWHLA-01         SPT         GET         1150         1797138.671         24337.4529         30.673559         -88.0.449229         Land           BRWHLA-01         SPT         GET         150         1797239.729         243530.4766         30.673859         -88.0.447025         Land           BRWHLA-04         SPT         GET         150         1797309.587         244595.3896         30.6738849         -88.0444301         Land           BRWHLA-06         CPT         SES         150         179730.581         245642.8502         30.6742912         -88.0443031         Land           BRWHLA-07         CPT         SES         150         179736.961         245642.8502         30.6747857         -88.0443032         Land           BRWHLA-08         SPT         Challenge         150         1797437.338         249582.94758         30.6747857         -88.0443021         Land           BRWHLA-10         CPT         SES         150         179753.767         245945.1124         30.6751821         -88.0439297         Land           BRWHLA-11         CPT	BREHLA-54	SPT	Challenge	150	1805360.122	251339.1257	30.6900564	-88.019019	Water
DRCHU230         SPT         Challenge         132         L003400.00         23300.0033         30.6734855         -88.0440222         Land           BRWHLA-02         CPT         SES         150         179718.671         243377.452         30.6734855         -88.0447025         Land           BRWHLA-03         CPT         SES         150         1797239.729         24350.4765         30.6734855         -88.0447025         Land           BRWHLA-04         SPT         GET         150         179730.527         24545.3866         30.6734855         -88.0447025         Land           BRWHLA-05         SPT         Challenge         150         179736.567         24542.8502         30.6742736         -88.0443032         Land           BRWHLA-06         CPT         SES         150         1797460.747         245818.5263         30.6747753         -88.0443032         Land           BRWHLA-07         CPT         SES         150         1797480.33         245962.9449         30.6751239         -88.0443032         Land           BRWHLA-10         CPT         SES         150         179754.382         24501.33         30.6755247         Land           BRWHLA-11         CPT         SES         150         <	BREHLA-55		Challenge	151	1805505.354	251304.1250	30.690127	-88.0185573	Water
BKWHLA-02         CPT         SET         GET         1.50         1.797188.07.1         24350.47323         -88.044325         -88.04447601         Land           BRWHLA-03         CPT         SES         150         1.797239.272         24350.47456         30.6739506         -88.0447601         Land           BRWHLA-04         SPT         GET         150         1.79730.587         24563.67608         30.6739506         -88.04445031         Land           BRWHLA-06         CPT         SES         150         1.79730.561         245642.8502         30.6742912         -88.0443032         Land           BRWHLA-06         CPT         SES         150         1.79736.561         245642.8502         30.6747912         -88.0443032         Land           BRWHLA-08         SPT         Challenge         150         1.797437.338         245962.9449         30.6751721         -88.0443027         Land           BRWHLA-10         CPT         SES         150         1.7974373.388         245962.9449         30.6751721         -88.0443027         Land           BRWHLA-10         CPT         SES         150         1.79759.331         246114.563         30.6751721         -88.0438777         Land           BRWHLA-13		SPT	Challenge	152	1803488.098	251300.0055	30.0899080	-88.0180177	vvaler
BRWHLA-20         CPT         3E3         130         1797259.725         243330.4763         30.6734333         -68.047001         Land           BRWHLA-04         SPT         GET         150         1797236.66         245515313         30.6738494         -88.0447025         Land           BRWHLA-05         SPT         Challenge         150         1797310.523         245636.7608         30.6742712         -88.0443331         Land           BRWHLA-06         CPT         SES         150         179736.561         245642.802         30.6742712         -88.0443321         Land           BRWHLA-06         CPT         SES         150         179746.971         245818.5263         30.6747513         -88.0443032         Land           BRWHLA-08         SPT         Challenge         150         1797460.777         245818.5263         30.6751721         -88.0443021         Land           BRWHLA-10         CPT         SES         150         1797493.7381         245914.124         30.6751721         -88.0432927         Land           BRWHLA-11         CPT         SES         150         179753.31         24610.1353         30.6752595         -88.0437916         Land           BRWHLA-14         CPT         SES </td <td>BRWHLA-01</td> <td>SPT</td> <td>GEI</td> <td>150</td> <td>1797188.071</td> <td>245377.4529</td> <td>30.0/3559</td> <td>-88.0449229</td> <td>Land</td>	BRWHLA-01	SPT	GEI	150	1797188.071	245377.4529	30.0/3559	-88.0449229	Land
BRWHLA-03         CPT         SES         130         1797308-06         243513-311         30.6739306         -88.044701         Land           BRWHLA-05         SPT         Challenge         150         179730.523         245635.7608         30.6738349         -88.044501         Land           BRWHLA-05         SPT         Challenge         150         179736.561         245642.8502         30.6742912         -88.0443281         Land           BRWHLA-06         CPT         SES         150         1797460.747         245818.2663         30.6747857         -88.0443221         Land           BRWHLA-09         SPT         Challenge         150         1797460.747         245962.9449         30.675123         -88.043207         Land           BRWHLA-10         CPT         SES         150         1797503.687         245962.9449         30.6755295         -88.043979         Land           BRWHLA-11         CPT         SES         150         1797503.687         246100.1353         30.6755895         -88.043979         Land           BRWHLA-14         CPT         SES         150         17975140         246271.4647         30.6758245         -88.0433974         Land           BRWHLA-14         CPT         SE	BRWHLA-02	CPT	SES	150	1797239.729	245350.4765	30.6734855	-88.0447601	Land
BRWHLA-44         SPI         Off         130         1797309-387         243493-3896         30.6738849         -88.0443931         Laflin           BRWHLA-06         CPT         SES         150         1797305.651         245642.8502         30.674236         -88.0443933         Land           BRWHLA-06         CPT         SES         150         179736.061         245642.8502         30.6742736         -88.044302         Land           BRWHLA-08         SPT         Challenge         150         1797460-747         245818.5263         30.674753         -88.044302         Land           BRWHLA-10         CPT         SES         150         179750.773         245962.9449         30.675121         -88.043797         Land           BRWHLA-11         CPT         SES         150         179754.855         246100.133         30.6755895         -88.0437916         Land           BRWHLA-12         SPT         Challenge         150         179754.855         246100.133         30.6756845         Land           BRWHLA-13         SPT         SES SPT         150         179751.763         2462423.2984         30.6759845         -88.0437078         Land           BRWHLA-16         CPT         SES         150	BRWHLA-03	CPI	SES	150	1797258.666	245519.5313	30.6739506	-88.0447025	Land
BRWHLA-05         SPI         Challenge         150         179730.32.3         245636.7008         30.6742/35         -88.0443233         Land           BRWHLA-06         CPT         SES         150         179736.961         24562.8502         30.6742/35         -88.0443231         Land           BRWHLA-07         CPT         SES         150         1797367.961         245822.6758         30.674773         -88.0443032         Land           BRWHLA-09         SPT         Challenge         150         1797437.338         245962.9449         30.6751721         -88.04439297         Land           BRWHLA-10         CPT         SES         150         1797437.385         245945.1124         30.6751231         -88.0439791         Land           BRWHLA-11         CPT         SES         150         1797547.855         246010.1353         30.6755807         -88.0439791         Land           BRWHLA-13         SPT         SES SPT         150         1797575.7563         246271.4647         30.6764396         -88.043078         Land           BRWHLA-16         CPT         SES         150         1797575.763         24632.2984         30.6774815         -88.0436594         Land           BRWHLA-16         CPT	BRWHLA-04	SPT	GET	150	1/9/309.58/	245495.3896	30.6738849	-88.0445401	Land
BRWHLA-05         CPI         SES         150         1797376:561         245942.8220         30.6747857         -88.0443281         Land           BRWHLA-08         SPT         Challenge         150         1797385.651         245922.6758         30.6747857         -88.0443032         Land           BRWHLA-09         SPT         Challenge         150         1797460.747         245818.5263         30.6747553         -88.0443032         Land           BRWHLA-10         CPT         SES         150         1797489.331         245114.5263         30.6755895         -88.0439297         Land           BRWHLA-11         CPT         SES         150         1797547.855         246100.1353         30.6755895         -88.0439796         Land           BRWHLA-13         SPT         Challenge         150         1797547.855         246271.6447         30.6759845         -88.0436655         Land           BRWHLA-14         CPT         SES         150         1797581.75         246257.6994         30.6758823         -88.0436654         Land           BRWHLA-16         CPT         SES         150         1797531.735         246584.2361         30.6764396         -88.043659         Land           BRWHLA-18         CPT	BRWHLA-05	SPT	Challenge	150	1/9/310.523	245636.7608	30.6742736	-88.0445393	Land
BRWHLA-07         CPI         SES         150         1797485.651         245822.678         30.674753         -88.0443032         Land           BRWHLA-09         SPT         Challenge         150         1797497.338         245962.9449         30.674753         -88.0440643         Land           BRWHLA-10         CPT         SES         150         1797503.667         245945.1124         30.6751721         -88.0439297         Land           BRWHLA-11         CPT         SES         150         1797503.667         245945.1124         30.675507         -88.0439716         Land           BRWHLA-11         SPT         Challenge         150         1797517.852         246210.1333         30.675507         -88.0437916         Land           BRWHLA-13         SPT         SES SPT         150         1797551.753         246227.6994         30.6763954         -88.0437078         Land           BRWHLA-15         SPT         SES         150         1797551.732         246575.0114         30.6773511         -88.0436594         Land           BRWHLA-16         CPT         SES         150         1797551.732         246739.8454         30.6773511         -88.0436594         Land           BRWHLA-16         CPT	BRWHLA-06	CPT	SES	150	1/9/3/6.961	245642.8502	30.6742912	-88.0443281	Land
BRWHLA-06         SPT         Challenge         150         1797480.747         243518.2353         30.6751733        88.0440443         Land           BRWHLA-10         CPT         SES         150         1797437.338         245962.9449         30.6751239        88.0439297         Land           BRWHLA-11         CPT         SES         150         1797489.331         24610.1353         30.6755895         -88.0439297         Land           BRWHLA-13         SPT         Challenge         150         1797547.855         246100.1353         30.6755807         -88.0439016         Land           BRWHLA-13         SPT         SES SPT         150         1797517.56         246527.14647         30.6764396         -88.0437078         Land           BRWHLA-16         CPT         SES         150         1797591.757         246527.0994         30.6764396         -88.0437078         Land           BRWHLA-17         SPT         SES         150         1797591.757         246527.0114         30.6773108         -88.043694         Land           BRWHLA-18         CPT         SES         150         179759.756         246912.7136         30.6777351         -88.043761         Land           BRWHLA-20         SPT	BRWHLA-07	CPT	SES	150	1797385.051	245822.0758	30.0747857	-88.0443032	Land
BRWHLA-10         CPT         SPT         Challenge         150         1797437.338         243962.3449         30.057121         -86.044141         Land           BRWHLA-11         CPT         SES         150         1797503.687         245945.1124         30.6751239         -88.0439277         Land           BRWHLA-11         CPT         SES         150         1797503.687         245945.1124         30.6755507         -88.0439779         Land           BRWHLA-13         SPT         Challenge         150         1797519.404         246271.4647         30.6760214         -88.0438847         Land           BRWHLA-15         SPT         SES         150         179759.7563         246232.984         30.6764396         -88.0436055         Land           BRWHLA-16         CPT         SES         150         1797591.756         246252.014         30.6773511         -88.0438429         Land           BRWHLA-18         CPT         SES         150         179759.328         246755.0114         30.6777511         -88.0438429         Land           BRWHLA-19         CPT         SES         150         179769.328         246912.7136         30.6777527         -88.0436514         Land           BRWHLA-21         S	BRWHLA-08	SPT	Challenge	150	1797460.747	245818.5263	30.0/4//53	-88.0440643	Land
BRWHLA-10         CP1         SES         150         1797503.687         245984,1124         30.6751239         -88.0439297         Land           BRWHLA-11         CPT         SES         150         1797489.331         246114.5263         30.6755895         -88.0439791         Land           BRWHLA-12         SPT         Challenge         150         1797584.7855         246100.1353         30.6755895         -88.0437916         Land           BRWHLA-13         SPT         SES SPT         150         1797519.404         246271.4647         30.6758845         -88.0436655         Land           BRWHLA-14         CPT         SES         150         1797591.752         246584.2361         30.6764823         -88.0436594         Land           BRWHLA-16         CPT         SES         150         1797591.752         2465912.7136         30.6773108         -88.043614         Land           BRWHLA-18         CPT         SES         150         1797569.235         246912.7136         30.6777108         -88.0435154         Land           BRWHLA-20         SPT         GET         150         1797659.35         246905.5124         30.6777527         -88.043631         Land           BRWHLA-21         SPT <t< td=""><td>BRWHLA-09</td><td>SPT</td><td>Challenge</td><td>150</td><td>1797437.338</td><td>245962.9449</td><td>30.0751721</td><td>-00.044141</td><td>Land</td></t<>	BRWHLA-09	SPT	Challenge	150	1797437.338	245962.9449	30.0751721	-00.044141	Land
BRWHLA-11         CPT         SES         150         1797489-331         240114,3285         30.0735895         -36.04397/9         Land           BRWHLA-13         SPT         Challenge         150         1797547.855         246100.1353         30.07555507         -88.04397/9         Land           BRWHLA-13         SPT         SES SPT         150         1797547.855         246257.6994         30.07559845         -88.0433655         Land           BRWHLA-14         CPT         SES         150         1797587.85         246257.6994         30.0764396         -88.0437078         Land           BRWHLA-16         CPT         SES         150         1797591.75         246584.2361         30.676823         -88.0436594         Land           BRWHLA-18         CPT         SES         150         1797569.77         246739.8854         30.6773108         -88.0435154         Land           BRWHLA-18         CPT         SES         150         1797654.982         24690.5124         30.6778151         -88.0435154         Land           BRWHLA-20         SPT         GET         150         1797654.982         24690.5124         30.6778164         -88.043659         Land           BRWHLA-21         SPT         GE		CPT	SES	150	1797505.087	245945.1124	20.6755205	-00.0439297	Land
BRWHLA-12         Grin Challenge         130         1797347.633         248001.133         50.6735307         -88.04357316         Land           BRWHLA-13         SPT         SES         150         1797519.404         246271.4647         30.6759845         -88.0438655         Land           BRWHLA-14         CPT         SES         150         1797519.4735         246271.4647         30.6764396         -88.0436554         Land           BRWHLA-15         SPT         SES         150         17975591.735         246528.2361         30.6764396         -88.0436554         Land           BRWHLA-16         CPT         SES         150         1797531.735         246558.2361         30.6773511         -88.043654         Land           BRWHLA-16         CPT         SES         150         179759.3738         246753.0114         30.6773511         -88.0436154         Land           BRWHLA-19         CPT         SES         150         1797654.988         24690.5124         30.6777851         -88.043659         Land           BRWHLA-20         SPT         GET         150         1797678.126         247058.976         30.6782167         -88.043659         Land           BRWHLA-21         SPT         GET <td< td=""><td></td><td></td><td>SES Challanga</td><td>150</td><td>1797469.551</td><td>240114.5205</td><td>30.0755695</td><td>-88.0439779</td><td>Land</td></td<>			SES Challanga	150	1797469.551	240114.5205	30.0755695	-88.0439779	Land
BRWHLA-13         SPT         JLS BPT         L100         L1797313-404         J240217.4047         J36.070214         Testo.38043647         Land           BRWHLA-14         CPT         SES         150         179758.257         246257.6994         30.6759845         -88.0436655         Land           BRWHLA-15         SPT         SES         150         179758.257         246257.6994         30.6764396         -88.0436594         Land           BRWHLA-16         CPT         SES         150         1797534.887         246755.0114         30.6776823         -88.0436594         Land           BRWHLA-17         SPT         SES         150         1797637.771         246739.8854         30.6773108         -88.0437151         Land           BRWHLA-19         CPT         SES         150         1797654.285         24690.5124         30.6777521         -88.0437361         Land           BRWHLA-21         SPT         GET         150         1797654.988         24690.5124         30.6778216         -88.0436599         Land           BRWHLA-22         CPT         SES         150         1797678.126         247058.9356         30.6782167         -88.0436599         Land           BRWHLA-23         CPT         S				150	1797547.855	240100.1555	20.6760214	-00.0437910	Land
BRWHLA-14         CFT         SES SPT         150         179738.237         24023.0394         30.079343         -48.0430033         Land           BRWHLA-15         SPT         SES SPT         150         179755.763         24623.2984         30.6764396         -88.0437078         Land           BRWHLA-16         CPT         SES         150         1797591.735         246584.2361         30.6764396         -88.0437078         Land           BRWHLA-18         CPT         SES         150         1797591.735         246739.8854         30.6773108         -88.043761         Land           BRWHLA-19         CPT         SES         150         179769.235         246912.7136         30.677751         -88.043631         Land           BRWHLA-21         SPT         GET         150         179769.3938         246900.5124         30.677851         -88.043631         Land           BRWHLA-22         CPT         SES         150         179769.126         247058.9356         30.6781886         -88.0433276         Land           BRWHLA-23         CPT         SES         150         179769.116         247218.6679         30.678628         -88.0433276         Land           BRWHLA-24         SPT         GET				150	1707509 257	240271.4047	20.6750214	-00.0430047	Land
BRWHLA-13         SF1         JS3         JS3 <thjs3< th="">         JS3         <thjs3< th=""> <thjs3<< td=""><td></td><td>SDT</td><td></td><td>150</td><td>1797575 762</td><td>240237.0994</td><td>30.6764396</td><td>-88.0430033</td><td>Land</td></thjs3<<></thjs3<></thjs3<>		SDT		150	1797575 762	240237.0994	30.6764396	-88.0430033	Land
BRWHLA-10         CFT         SES SPT         150         1797931.73         24038.291         30.0708823         788.0430394         Land           BRWHLA-17         SPT         SES SPT         150         1797534.887         246755.0114         30.6773511         -88.0438154         Land           BRWHLA-19         CPT         SES         150         1797637.771         246739.8854         30.6777851         -88.0433154         Land           BRWHLA-20         SPT         GET         150         1797654.988         246900.5124         30.6777527         -88.043631         Land           BRWHLA-21         SPT         GET         150         1797678.126         247058.9356         30.6781267         -88.0436599         Land           BRWHLA-22         CPT         SES         150         1797678.126         247058.9356         30.6781267         -88.0436599         Land           BRWHLA-23         CPT         SES         150         1797678.126         247218.6679         30.678628         -88.0433276         Land           BRWHLA-23         CPT         SES         150         1797640.902         247387.7458         30.6790921         -88.0433276         Land           BRWHLA-26         CPT         SES<				150	1797575.705	240425.2964	20 6769922	-00.0437070	Land
BRWHLA-17         SES         130         1797334.89         240735.0114         30.0773111         788.0433429         Land           BRWHLA-18         CPT         SES         150         1797637.771         246739.8854         30.0773108         -88.0433154         Land           BRWHLA-19         CPT         SES         150         1797659.235         246912.7136         30.0777851         -88.0437361         Land           BRWHLA-20         SPT         GET         150         1797654.988         24690.5124         30.6777527         -88.0437661         Land           BRWHLA-21         SPT         GET         150         1797678.126         247058.9356         30.6778186         -88.043761         Land           BRWHLA-22         CPT         SES         150         1797678.126         247058.9356         30.6781886         -88.0437867         Land           BRWHLA-23         CPT         SES         150         179769.116         247218.6679         30.678628         -88.0433567         Land           BRWHLA-24         SPT         GET         150         179764.0902         24738.7458         30.679051         -88.043154         Land           BRWHLA-26         CPT         SES         150				150	1797591.755	240364.2301	20 6772511	-00.0430394	Land
BRWHLA-16         CPT         SES         150         179763.717         240793.83.44         30.0778106         -88.04331.14         Land           BRWHLA-19         CPT         SES         150         1797569.235         246912.7136         30.6777851         -88.0437361         Land           BRWHLA-20         SPT         GET         150         1797593.938         246900.5124         30.6777851         -88.043659         Land           BRWHLA-21         SPT         GET         150         1797678.126         247058.9356         30.6781886         -88.043659         Land           BRWHLA-22         CPT         SES         150         1797678.126         247058.9356         30.6781886         -88.0435867         Land           BRWHLA-23         CPT         SES         150         179769.116         247218.6679         30.678628         -88.0433276         Land           BRWHLA-26         SPT         SES         150         179774.5287         247387.7458         30.6790639         -88.0433514         Land           BRWHLA-26         CPT         SES         150         1797745.456         24756.8163         30.6790639         -88.043371         Land           BRWHLA-27         SPT         SES				150	1797534.007	240733.0114	20 6772109	-00.0430429 00.0425157	Land
BRWHLA-19         CF1         GET         130         1797305.233         240912.1130         30.0777311         58.0437301         Land           BRWHLA-20         SPT         GET         150         179765.988         246900.5124         30.0777527         -88.0436599         Land           BRWHLA-21         SPT         GET         150         179769.393         247069.5724         30.6782167         -88.0436599         Land           BRWHLA-22         CPT         SES         150         1797617.745         247038.9356         30.67861886         -88.043567         Land           BRWHLA-23         CPT         SES         150         179769.116         247218.6679         30.678628         -88.0433276         Land           BRWHLA-24         SPT         GET         150         1797640.745         24737.1089         30.678628         -88.0435154         Land           BRWHLA-25         SPT         SES SPT         150         1797745.56         24737.1089         30.679039         -88.0432554         Land           BRWHLA-25         SPT         SES SPT         150         1797745.456         247536.8163         30.6799033         -88.043175         Land           BRWHLA-28         CPT         SES		CPT	SES	150	1707560 225	240739.8834	20 6777951	99 0427261	Land
BRWHLA-20         SPT         GET         150         17970593.383         240300.3124         30.077327         30.0434031         Land           BRWHLA-21         SPT         GET         150         1797593.388         247069.5724         30.6782167         -88.0436599         Land           BRWHLA-22         CPT         SES         150         1797678.126         247058.9356         30.6786587         -88.0433697         Land           BRWHLA-23         CPT         SES         150         179769.116         247218.6679         30.6786587         -88.0433276         Land           BRWHLA-24         SPT         GET         150         179769.116         247218.6679         30.678628         -88.0433276         Land           BRWHLA-24         SPT         SES SPT         150         17977640.902         247387.7458         30.6790921         -88.0435154         Land           BRWHLA-25         SPT         SES SPT         150         1797745.456         247536.8163         30.6790639         -88.0432554         Land           BRWHLA-23         CPT         SES SPT         150         1797745.456         247536.8163         30.679976         -88.0431851         Land           BRWHLA-30         SPT <td< td=""><td></td><td>SDT</td><td>GET</td><td>150</td><td>1797654 988</td><td>240912.7130</td><td>30.6777527</td><td>-88.0437501</td><td>Land</td></td<>		SDT	GET	150	1797654 988	240912.7130	30.6777527	-88.0437501	Land
BRWHLA-22         CPT         SES         150         1797635.556         247005.5724         30.6782107         786.0438599         Land           BRWHLA-22         CPT         SES         150         1797678.126         247058.9356         30.6781886         -88.0433919         Land           BRWHLA-23         CPT         SES         150         1797617.745         247230.2433         30.6786587         -88.0433276         Land           BRWHLA-24         SPT         GET         150         1797699.116         247218.6679         30.678628         -88.0433276         Land           BRWHLA-25         SPT         SES SPT         150         1797640.902         247387.7458         30.6790639         -88.04335154         Land           BRWHLA-26         CPT         SES         150         1797745.456         247536.8163         30.6790639         -88.0433151         Land           BRWHLA-27         SPT         SES SPT         150         1797745.456         247536.8163         30.6799033         -88.04337         Land           BRWHLA-28         CPT         SES         150         1797768.184         247709.0235         30.6799376         -88.0433089         Land           BRWHLA-30         SPT         C		SF I CDT	GET	150	1797502 022	240300.3124	30.6782167	-88 0136200	Land
BRWHLA-23         CPT         SES         150         179761.120         24703.335         30.0781860         -88.0435813         Land           BRWHLA-23         CPT         SES         150         1797617.745         247230.2433         30.6786587         -88.0435867         Land           BRWHLA-24         SPT         GET         150         1797699.116         247218.6679         30.678628         -88.043576         Land           BRWHLA-25         SPT         SES SPT         150         1797640.902         247387.7458         30.6790921         -88.0435154         Land           BRWHLA-25         SPT         SES SPT         150         1797745.456         247387.7458         30.6790639         -88.0432554         Land           BRWHLA-26         CPT         SES         150         1797745.456         247377.1089         30.6790639         -88.0432574         Land           BRWHLA-27         SPT         SES SPT         150         1797745.456         247536.8163         30.6799503         -88.0431851         Land           BRWHLA-28         CPT         SES         150         179770.181         247694.6323         30.6799376         -88.0431089         Land           BRWHLA-30         SPT         C	BRWHIA-22	СРТ	SES	150	1797678 126	247059.3724	30.6781886	-88 0/22010	Land
BRWHLA-24         SPT         GET         150         179769.116         247236.2435         30.0780367         788.0433867         Land           BRWHLA-24         SPT         GET         150         1797699.116         247218.6679         30.678628         -88.0433276         Land           BRWHLA-25         SPT         SES SPT         150         1797640.902         247387.7458         30.6790921         -88.0435154         Land           BRWHLA-26         CPT         SES         150         1797745.456         247536.8163         30.6790639         -88.0432554         Land           BRWHLA-27         SPT         SES SPT         150         1797745.456         247536.8163         30.6790639         -88.0431851         Land           BRWHLA-28         CPT         SES         150         1797745.456         247536.8163         30.679976         -88.04317         Land           BRWHLA-29         SPT         Challenge         150         1797770.181         247694.6323         30.6799376         -88.0431089         Land           BRWHLA-30         SPT         Challenge         150         179790.119         248064.4347         30.6803897         -88.0420934         Land           BRWHLA-31         CPT	BRWHIA-22	СРТ	SES	150	1797617 745	247230 2/122	30 6786587	-88 0/25867	Land
BRWHLA-25         SPT         SES SPT         150         1797640.902         247387.7458         30.679022         38.0433270         Land           BRWHLA-26         CPT         SES SPT         150         1797640.902         247387.7458         30.679021         -88.0435154         Land           BRWHLA-26         CPT         SES         150         1797722.587         247377.1089         30.6790639         -88.0432554         Land           BRWHLA-27         SPT         SES SPT         150         1797745.456         247536.8163         30.6799033         -88.0431851         Land           BRWHLA-28         CPT         SES         150         1797745.456         247536.8163         30.6799766         -88.043175         Land           BRWHLA-29         SPT         Challenge         150         1797770.181         247694.6323         30.6799376         -88.0431089         Land           BRWHLA-30         SPT         Challenge         150         1797775.845         247859.0615         30.6803897         -88.0430934         Land           BRWHLA-31         CPT         SES         150         1797937.683         248335.8768         30.6817028         -88.0427013         Land           BRWHLA-33         SPT	BRWHI A-24	SPT	GFT	150	1797699 116	247218 6679	30 678628	-88 0433276	Land
BRWHLA-25         CPT         SES         150         179704.302         247377.1089         30.6790639         -88.0432554         Land           BRWHLA-26         CPT         SES         150         1797722.587         247377.1089         30.6790639         -88.0432554         Land           BRWHLA-27         SPT         SES SPT         150         1797745.456         247536.8163         30.6799033         -88.0431851         Land           BRWHLA-28         CPT         SES         150         1797745.456         247536.8163         30.6799766         -88.043175         Land           BRWHLA-29         SPT         Challenge         150         1797770.181         247694.6323         30.6799376         -88.0431089         Land           BRWHLA-30         SPT         Challenge         150         1797775.845         247859.0615         30.6803897         -88.0430934         Land           BRWHLA-31         CPT         SES         150         1797937.683         248335.8768         30.6817028         -88.0427013         Land           BRWHLA-33         SPT         SES SPT         150         179793.048         248307.158         30.6816246         -88.042094         Land           BRWHLA-34         SPT	BRWHLA-25	SPT	SES SPT	150	1797640 902	247210.0079	30.6790921	-88 0435154	Land
BRWHLA-27         SPT         SES SPT         150         1797745.456         247536.8163         30.6795033         -88.0431851         Land           BRWHLA-27         SPT         SES SPT         150         1797745.456         247536.8163         30.6795033         -88.0431851         Land           BRWHLA-28         CPT         SES         150         1797688.184         247709.0235         30.679976         -88.04317         Land           BRWHLA-29         SPT         Challenge         150         1797770.181         247694.6323         30.6799376         -88.0431089         Land           BRWHLA-30         SPT         Challenge         150         1797775.845         247859.0615         30.6803897         -88.0430934         Land           BRWHLA-31         CPT         SES         150         1797900.119         248064.4347         30.680956         -88.0420934         Land           BRWHLA-32         CPT         SES         150         1797937.683         248307.158         30.6817028         -88.0425859         Land           BRWHLA-33         SPT         AM         150         1797930.48         248307.158         30.6816246         -88.0420708         Land           BRWHLA-34         SPT	BRWHLA-26	CPT	SES SE	150	1797722 587	247377 1089	30,6790639	-88 0432554	Land
BRWHLA-28         CPT         SES         150         17977638.184         247709.0235         30.679976         -88.04337         Land           BRWHLA-29         SPT         Challenge         150         17977688.184         247709.0235         30.679976         -88.04337         Land           BRWHLA-29         SPT         Challenge         150         1797770.181         247694.6323         30.6799376         -88.0431089         Land           BRWHLA-30         SPT         Challenge         150         1797775.845         247859.0615         30.6803897         -88.0430934         Land           BRWHLA-31         CPT         SES         150         1797900.119         248064.4347         30.680956         -88.0420934         Land           BRWHLA-32         CPT         SES         150         1797937.683         248307.158         30.6817028         -88.0425859         Land           BRWHLA-33         SPT         SES SPT         150         1797993.048         248307.158         30.6816246         -88.0420708         Land           BRWHLA-34         SPT         AM         150         1798100.863         248591.1671         30.6824069         -88.0420708         Land           BRWHLA-35         CPT	BRWHI 4-27	SPT	SES SPT	150	1797745 456	247536 8163	30,6795033	-88.0431851	Land
BRWHLA-32         CPT         SES         150         179700.104         24709.0233         30.079970         168.04337         Land           BRWHLA-31         CPT         Challenge         150         1797770.181         247694.6323         30.6799376         -88.0431089         Land           BRWHLA-30         SPT         Challenge         150         1797775.845         247859.0615         30.6803897         -88.0430934         Land           BRWHLA-31         CPT         SES         150         1797900.119         248064.4347         30.680956         -88.042013         Land           BRWHLA-32         CPT         SES         150         1797937.683         248335.8768         30.6817028         -88.0425859         Land           BRWHLA-33         SPT         SES SPT         150         1797930.48         248307.158         30.6816246         -88.042094         Land           BRWHLA-34         SPT         AM         150         1798100.863         248591.1671         30.6824069         -88.0420708         Land           BRWHLA-35         CPT         SES         150         1798102.83         248558.1223         30.6823166         -88.0419209         Land           BRWHLA-36         CPT         SES	BRW/HI A-22	СРТ	SES SI I	150	1797688 18/	247709 0225	30 679976	-88 04337	Land
BRWHLA-30         SPT         Challenge         150         1797775.845         247859.0615         30.6803897         -88.0430934         Land           BRWHLA-31         CPT         SES         150         1797900.119         248064.4347         30.6803897         -88.0430934         Land           BRWHLA-31         CPT         SES         150         1797930.119         248064.4347         30.680956         -88.0427013         Land           BRWHLA-32         CPT         SES         150         1797937.683         248335.8768         30.6817028         -88.0425859         Land           BRWHLA-33         SPT         SES SPT         150         1797993.048         248307.158         30.6816246         -88.042094         Land           BRWHLA-34         SPT         AM         150         1798100.863         248591.1671         30.6824069         -88.0420708         Land           BRWHLA-35         CPT         SES         150         1798100.863         248558.1223         30.6823166         -88.0419209         Land           BRWHLA-36         CPT         SES         150         179820.024         248756.5363         30.6828631         -88.0416943         Land           BRWHLA-37         SPT         AM	BRWHI 4-29	SPT	Challenge	150	1797770 181	247694 6323	30,6799376	-88.0431089	Land
BRWHLA-31         CPT         SES         150         1797930.119         248064.4347         30.680956         -88.0427013         Land           BRWHLA-32         CPT         SES         150         1797937.683         248335.8768         30.680956         -88.0427013         Land           BRWHLA-32         CPT         SES         150         1797937.683         248335.8768         30.6817028         -88.0425859         Land           BRWHLA-33         SPT         SES SPT         150         1797993.048         248307.158         30.6816246         -88.042094         Land           BRWHLA-34         SPT         AM         150         1798100.863         248591.1671         30.6824069         -88.0420708         Land           BRWHLA-35         CPT         SES         150         1798100.863         248558.1223         30.6823166         -88.0419209         Land           BRWHLA-36         CPT         SES         150         179820.024         248756.5363         30.6823631         -88.0416943         Land           BRWHLA-37         SPT         AM         150         1798267.577         248716.1784         30.6827528         -88.0415424         Land	BRWHI A-30	SPT	Challenge	150	1797775 845	247859 0615	30 6803897	-88 0430934	Land
BRWHLA-32         CPT         SES         150         1797937.683         248335.8768         30.6817028         -88.0425859         Land           BRWHLA-33         SPT         SES SPT         150         1797937.683         248307.158         30.6817028         -88.0425859         Land           BRWHLA-33         SPT         SES SPT         150         1797930.048         248307.158         30.6816246         -88.042094         Land           BRWHLA-34         SPT         AM         150         1798100.863         248591.1671         30.6824069         -88.0420708         Land           BRWHLA-35         CPT         SES         150         1798100.863         248558.1223         30.6823166         -88.0419209         Land           BRWHLA-36         CPT         SES         150         1798220.024         248756.5363         30.6828631         -88.0416943         Land           BRWHLA-37         SPT         AM         150         1798267.577         248716.1784         30.6827528         -88.0415424         Land	BRWHI A-31	СРТ	SFS	150	1797900 119	248064 4347	30 680956	-88 0427013	Land
BRWHLA-33         SPT         SES SPT         150         1797993.048         248307.158         30.6816246         -88.0424094         Land           BRWHLA-34         SPT         AM         150         1798100.863         248591.1671         30.6816246         -88.042094         Land           BRWHLA-34         SPT         AM         150         1798100.863         248591.1671         30.6824069         -88.0420908         Land           BRWHLA-35         CPT         SES         150         1798147.823         248558.1223         30.6823166         -88.0419209         Land           BRWHLA-36         CPT         SES         150         1798220.024         248756.5363         30.6828631         -88.0416943         Land           BRWHLA-37         SPT         AM         150         1798267.577         248716.1784         30.6827528         -88.0415424         Land	BRWHI A-32	СРТ	SES	150	1797937 683	248335 8768	30 6817028	-88 0425859	Land
BRWHLA-34         SPT         AM         150         1798100.863         248591.1671         30.6824069         -88.0420708         Land           BRWHLA-35         CPT         SES         150         1798120.243         248558.1223         30.6823166         -88.0419209         Land           BRWHLA-36         CPT         SES         150         1798220.024         248756.5363         30.6828631         -88.0416943         Land           BRWHLA-37         SPT         AM         150         1798267.577         248716.1784         30.6827528         -88.0415424         Land	BRWHI 4-32	SPT	SES	150	1797993 048	248307 158	30 6816246	-88 0424094	Land
BRWHLA-35         CPT         SES         150         1798147.823         248558.1223         30.6823166        88.0419209         Land           BRWHLA-36         CPT         SES         150         179820.024         248756.5363         30.6828631        88.0419209         Land           BRWHLA-37         SPT         AM         150         1798267.577         248716.1784         30.6827528        88.0415424         Land	BRWHIA-34	SPT	AM	150	1798100 863	248591 1671	30.6824069	-88.0420708	Land
BRWHLA-36         CPT         SES         150         1798220.024         248756.5363         30.6828631         -88.0416943         Land           BRWHLA-37         SPT         AM         150         1798267.577         248716.1784         30.6827528         -88.0415424         Land	BRWHI 4-35	СРТ	SES	150	1798147 823	248558 1222	30,6823166	-88.0419209	Land
BRWHLA-37 SPT AM 150 1798267.577 248716.1784 30.6827528 -88.0415424 Land	BRWHI A-36	СРТ	SES	150	1798220 024	248756.5363	30,6828631	-88,0416943	Land
	BRWHLA-37	SPT	AM	150	1798267.577	248716.1784	30.6827528	-88.0415424	Land

Device ID	Duilliu e Masthaad	<b>F</b> :	Denth (ft)	F. ativ. a	N - ut h in -			
BORING ID		Firm	Depth (ft)	Easting	Northing	Latitude	Longitude	L/W
BRWHLA-38	SPT	AM	150	1/98330./0/	2488/7.7175	30.6831978	-88.041344	Land
BRWHLA-39	СРТ	SES	150	1798375.197	248834.0067	30.6830782	-88.0412018	Land
BRWHLA-40	СРТ	SES	150	1798449.913	248990.5244	30.6835095	-88.0409666	Land
BRWHLA-41	SPT	AM	150	1798491.105	248943.6924	30.6833813	-88.0408348	Land
BRWHLA-42	SPT	AM	150	1798577.011	249094.359	30.6837966	-88.0405638	Land
BRWHLA-43	СРТ	SES	150	1798614.686	249044.654	30.6836605	-88.0404432	Land
BRWHLA-44	СРТ	SES	150	1798709.892	249188.1826	30.6840564	-88.0401426	Land
BRWHLA-45	SPT	AM	150	1798745.11	249138.7611	30.6839209	-88.0400298	Land
BRWHLA-46	SPT	AM	150	1798841.952	249278.8311	30.6843073	-88.0397238	Land
BRWHLA-47	СРТ	SES	150	1798877.17	249229.4096	30.6841719	-88.0396111	Land
BR10-01	SPT	Challenge	150	1797840.528	248799.6291	30.6829765	-88.0429021	Land
BR10-02	СРТ	SES	150	1797887.487	249145.8752	30.6839291	-88.0427581	Land
BR10-03	SPT	Challenge	150	1797920.355	249362.2207	30.6845244	-88.0426568	Land
BR10-04	СРТ	SES	150	1797816.643	249379.8009	30.6845713	-88.042987	Land
BR10-05	СРТ	SES	150	1797958.015	249570.4038	30.6850973	-88.0425402	Land
BR10-06	SPT	SES SPT	150	1798052.953	249553.739	30.6850527	-88.042238	Land
BR10-07	SPT	GET	150	1797917.829	249687.2396	30.685418	-88.0426699	Land
BR10-08	СРТ	SES	150	1797952.011	249883.4057	30.6859577	-88.0425642	Land
BR10-09	SPT	SES SPT	150	1798155.523	250124.6222	30.6866236	-88.0419205	Land
MB-01	SPT	AM	250	1799010.736	249286.0112	30.6843293	-88.039187	Land
MB-02	SPT	AM	250	1798974.264	249407.6897	30.6846634	-88.0393049	Land
MB-03	SPT	AM	415	1799390.127	249740.9465	30.6855851	-88.0379871	Land
MB-04	SPT	AM	400	1799476.47	249624.9311	30.6852673	-88.0377106	Land
MB-05	SPT	AM	415	1799533.936	249818.6984	30.6858008	-88.0375308	Land
MB-06	SPT	AM	400	1799569.535	249691,2489	30.6854508	-88.0374156	Water
MB-07	SPT	AM	400	1800511.83	250582.0185	30.6879123	-88.0344315	Water
MB-08	SPT	AM	415	1800638.041	250421,7266	30.6874732	-88.0340276	Land
MB-09	SPT	AM	415	1800612 877	250651 3859	30 6881043	-88 0341111	Water
MB-10	SPT	AM	400	1800729 822	250487 9366	30 6876564	-88 0337366	Water
MB-11	SPT	AM	250	1801103 616	250778 8542	30 6884612	-88 0325518	Land
MB-12	SPT	AM	250	1801067 144	250900 5327	30 6887952	-88 0326697	Land
SS-01	SPT	GET	10	1796111 321	244052 8747	30,6699028	-88 0483291	Land
<u>SS-02</u>	SPT	Challenge	10	1796364 368	243939 0734	30,6695933	-88 0475225	Land
SS-03	SPT	GET	10	1796225 975	2433333.0734	30,6703708	-88 0/79671	Land
SS-03	SPT	GET	10	17967/0 11	244222.000	30.6705937	-88 0/6333	Land
55-05	SPT	GET	10	1796542 974	244301.0031	30.6718177	-88.046967	Land
SS-06		GET	10	1706601 82	244747.232	30.6722005	-88.040307	Land
55-00		GET	10	1790091.82	244889.0102	20.6711922	-00.0404937	Land
55-07		GET	10	1797000.82	244515.5490	30.0711822	-00.0452972	Land
55-08		GET	10	1797301.327	244250.905	20.699205	-00.0445472	Land
55-09	SPT	GET	10	1799205.105	230731.1249	30.066303	-88.0385900	Land
SS-10	SPT	GEI	10	1798268.546	249758.5599	30.0850187	-88.0415553	Land
55-11	571	SES SP1	100	170002.329	244609.5889	20.072101	-00.0453169	Land
55-12	SPT	5E5 5P1	100	1796922.142	244085.0895	30.6716519	-88.045/6	Land
55-13	521	GET	10	1/9899/.985	249959.057	30.0801/96	-88.0392379	Land
55-14	SPT	GET	10	1/9839/.3/1	249258.2641	30.6842449	-88.0411378	Land
W1-01	SPT	GEI	40	1795895.472	243334.0801	30.6679237	-88.0490045	Land
W1-02	CPT	SES	40	1/95930.055	243435.127	30.668202	-88.0488961	Land
W1-03	SPT	GET	40	1796018.26	243491.9507	30.6683594	-88.0486164	Land
W2-01	SPT	GET	40	1796030.708	243873.0369	30.6694073	-88.0485828	Land
W2-02	СРТ	SES	40	1796077.172	243961.583	30.6696514	-88.0484363	Land
W3-01	SPT	GET	40	1797655.522	247989.9095	30.6807479	-88.0434782	Land
W3-02	СРТ	SES	40	1797693.929	248287.1972	30.6815657	-88.0433606	Land
W3-03	SPT	GET	40	1797702.722	248486.9914	30.6821152	-88.0433357	Land
W3-04	СРТ	SES	40	1797698.104	248587.1704	30.6823905	-88.0433519	Land
W3-05	SPT	GET	40	1797709.64	248686.8679	30.6826648	-88.0433168	Land
W3-06	СРТ	SES	40	1797709.421	248777.4301	30.6829138	-88.0433189	Land
W4-01	SPT	GET	40	1797757.535	248562.7467	30.6823242	-88.0431625	Land
W4-02	CPT	SES	40	1797781.807	248660.3421	30.6825928	-88.0430868	Land
W4-03	SPT	GET	40	1797785.4	248760.844	30.6828692	-88.0430769	Land



# MOBILE RIVER BRIDGE BORING LAYOUT

# INDEX













<u>SCALE</u> 1 " = 100'





# SHEET 7



<u>SCALE</u> 1 " = 100'

# SHEET 8



MOBILE RIVER BRIDGE BORING LAYOUT







MOBILE RIVER BRIDGE BORING LAYOUT

# SHEET 12







# SHEET 15







# **APPENDIX B**

# SUBCONTRACT HEALTH, SAFETY, ENVIRONMENTAL PREQUALIFICATION INFORMATION

# Subcontractor Health, Safety, Environmental Prequalification Information

- 1. Company Health, Safety, Environmental Program to include, but not limited to the following
  - a. Designated Safety Professional contact information and qualifications (CV)
  - b. Daily pre-task planning expectations
  - c. PPE expectations
  - d. Policies covering:
    - i. Working around (if applicable to scope):
      - 1. Contaminated materials
      - 2. Bodies of water
      - 3. Protected areas
    - ii. Spill prevention / control
  - e. Health, Safety, Environmental training program
  - f. Injury Management Plan
- 2. Equipment Maintenance Program
- 3. Job Hazard Analysis (JHA) for all applicable tasks
  - a. Geotechnical
    - i. Exploratory boring
    - ii. Cone Penetration Testing (CPT)
    - iii. Test pits / trenches
    - iv. Piezometers
    - v. Geophysical
- 4. Lagging Safety Stats US and Canada
  - a. Past 3 years EMR include EMR letters from WC provider
  - b. Past 3 years OSHA citation / CCOHS direction history
  - c. Past 3 years EPA violation history
- 5. Lagging Safety Stats US only
  - a. Past 3 years OSHA 300 Logs Redacted to exclude personal details

# **APPENDIX C**

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# SAFETY DATA SHEET – MIN-U-GEL, FLORIGEL



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard (29 CFR 1910.1200) and Canada WHMIS 2015 which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR)

Issuing Date	13-Apr-2019	Revision date	15-Apr-2021		Revision Number	2
1. Identific	ation					
Product identi	ifier					
Product Name	9	Min-U-Gel®, Florigel®				
Other means	of identification					
Synonyms		Hydrated Magnesium Al	uminosilicate; Attapulgi	te Clay; Fuller's Earth		
Recommende	ed use of the chemic	al and restrictions on use	-			
Recommende	ed use	Suspension agent; Syne	eresis control; Rheologi	cal additive; Binder		
Restrictions o	on use					
Details of the	supplier of the safe	ty data sheet				
Supplier A Active Mine 34 Loveton Suite 100 Sparks, ME USA 410-825-29	Address erals International, LL n Circle D 21152 920	.C				
Emergency te	lephone number					
Emergency Te	elephone	1-800-255-3924				
2. Hazard(	s) identification	1				

#### **Classification**

Carcinogenicity	Category 1A
Specific target organ toxicity (repeated exposure)	Category 1

#### Label elements

#### Danger

#### Hazard statements

May cause cancer Causes damage to lungs through prolonged or repeated exposure



#### **Precautionary Statements - Prevention**

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing Do not breathe dust

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

#### Precautionary Statements - Storage

Store in accordance with local regulations

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Other information

No information available.

#### 3. Composition/information on ingredients

#### Substance

Not applicable.

#### Mixture

Common name

Attapulgite.

#### Synonyms

Hydrated Magnesium Aluminosilicate; Attapulgite Clay; Fuller's Earth.

Chemical name	CAS No	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Attapulgite	12174-11-7	95	-	-
Quartz	14808-60-7	5	-	-
Magnesium Oxide	1309-48-4	<1	-	-

#### 4. First-aid measures

#### **Description of first aid measures**

#### **General advice**

IF exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance.

Inhalation	Remove to fresh air.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids.
Skin contact	Wash skin with soap and water.
Ingestion	Clean mouth with water and drink afterwards plenty of water.
Most important symptoms and effec	ts, both acute and delayed
Symptoms	Causes damage to organs through prolonged or repeated exposure if inhaled.
Indication of any immediate medical	attention and special treatment needed
Note to physicians	Treat symptomatically.
5. Fire-fighting measures	
5. Fire-fighting measures Suitable Extinguishing Media	Dry chemical, CO2, water spray or regular foam.
5. Fire-fighting measures Suitable Extinguishing Media Unsuitable extinguishing media	Dry chemical, CO2, water spray or regular foam. Do not scatter spilled material with high pressure water streams.
5. Fire-fighting measures Suitable Extinguishing Media Unsuitable extinguishing media Specific hazards arising from the chemical	Dry chemical, CO2, water spray or regular foam. Do not scatter spilled material with high pressure water streams. No information available.
5. Fire-fighting measures Suitable Extinguishing Media Unsuitable extinguishing media Specific hazards arising from the chemical Hazardous combustion products	Dry chemical, CO2, water spray or regular foam. Do not scatter spilled material with high pressure water streams. No information available. None.
<ul> <li>5. Fire-fighting measures</li> <li>Suitable Extinguishing Media</li> <li>Unsuitable extinguishing media</li> <li>Specific hazards arising from the chemical</li> <li>Hazardous combustion products</li> <li>Explosion data Sensitivity to mechanical impact Sensitivity to static discharge</li> </ul>	Dry chemical, CO2, water spray or regular foam. Do not scatter spilled material with high pressure water streams. No information available. None. None.

## 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas.			
Other information	Refer to protective measures listed in Sections 7 and 8.			
Methods and material for containment and cleaning up				
Methods for containment	Prevent further leakage or spillage if safe to do so.			
Methods for cleaning up	Pick up and transfer to properly labeled containers.			

#### 7. Handling and storage

#### Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation.

#### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Store away from incompatible materials.

#### 8. Exposure controls/personal protection

#### Control parameters

#### Exposure Limits

Chemical name		ACGIH T	LV	05	SHA PEL		NIOSH ID	LH
Attapulgite		TWA: 1 mg/m <sup>3</sup>	respirable		-		-	
12174-11-7		particulate n	natter					
Quartz		TWA: 0.025 mg/m <sup>3</sup>	<sup>3</sup> respirable	TWA	\: 50 μg/m³	IDL	H: 50 mg/m <sup>3</sup>	respirable
14808-60-7		particulate n	natter	(vacated)	TWA: 0.1 mg/m <sup>3</sup>		dust	
				resp	oirable dust	TWA:	: 0.05 mg/m <sup>3</sup>	respirable
				: (250)/(%	%SiO2 + 5) mppcf		dust	
				TWA res	pirable fraction			
				: (10)/(%	$5SiO2 + 2) mg/m^3$			
				TWA res	pirable fraction			
Magnesium Oxide		TWA: 10 mg/m <sup>3</sup>	inhalable	TWA: 1	5 mg/m <sup>3</sup> total		-	
1309-48-4		particulate n	natter	partic	ulate matter			
Chemical name		Alberta	British C	Columbia	Ontario		Que	ebec
Attapulgite			TWA: 1.	0 mg/m <sup>3</sup>	TWA: 1 mg/m	3	TWA: 11	ibre/cm3
12174-11-7				-	-			
Quartz	TΜ	/A: 0.025 mg/m <sup>3</sup>	TWA: 0.0	25 mg/m <sup>3</sup>	TWA: 0.10 mg/	m³	TWA: 0.	1 mg/m <sup>3</sup>
14808-60-7		C C		C C	C C			C C
Magnesium Oxide	TW	A: 10 mg/m <sup>3</sup> (as	TWA: 10	) mg/m <sup>3</sup> ,	TWA: 10 mg/m	1 <sup>3</sup>	TWA: 1	0 mg/m <sup>3</sup>
1309-48-4		fume)	STEL: 3	3 mg/m <sup>3</sup>	0			5
			respirable du	ust and fume				

#### Appropriate engineering controls

Engineering controls Showers Eyewash stations Ventilation systems.

#### Individual protection measures, such as personal protective equipment

Eye/face protection	No special protective equipment required.	
Hand protection	Wear suitable gloves.	
Skin and body protection	Wear suitable protective clothing.	
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.	

Environmental exposure controls Avoid release to the environment.General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and

immediately after handling the product.

## 9. Physical and chemical properties

Information on basic physical and o	chemical properties	
Appearance	Powder	
Physical state	Solid	
Color	yellowish brown to gray	
Odor	No information available	
Odor threshold	No information available	
Property	Values	Remarks • Method
рН	7 - 10.5 (aqueous solution)	
Melting point / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	Not flammable	
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive	No data available	
limits		
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	2.4	
Water solubility	Insoluble	
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Other information		
Explosive properties	Not applicable.	
Oxidizing properties	Not applicable.	
Softening point	No information available	
Molecular weight	No information available	
VOC Content (%)	No information available	
Liquid Density	No information available	
Bulk density	No information available	

## 10. Stability and reactivity

Reactivity	No dangerous reaction known under conditions of normal use.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Dust formation. Incompatible materials.
Incompatible materials	Hydrofluoric acid.

Hazardous decomposition products None known.

11. Toxicological information			
Information on likely routes of expo	osure		
Product Information			
Inhalation	May cause irritation of respiratory tract.		
Eye contact	Dust contact with the eyes can lead to mechanical irritation.		
Skin contact	Contact with dust can cause mechanical irritation or drying of the skin.		
Ingestion	May cause irritation.		
Symptoms related to the physical,	chemical and toxicological characteristics		
Symptoms	Dust may be irritating.		
Acute toxicity			
Numerical measures of toxicity No information available			
Delayed and immediate effects as v	vell as chronic effects from short and long-term exposure		
Skin corrosion/irritation	Not classified.		
Serious eye damage/eye irritation	Not classified.		
Respiratory or skin sensitization	Not classified.		
Germ cell mutagenicity	Not classified		
Carcinogenicity	Contains a known or suspected carcinogen. Classification based on data available for		

The table below indicates whether each agency has listed any ingredient as a carcinogen.

ingredients. May cause cancer.

	<u> </u>		0	
Chemical name	ACGIH	IARC	NTP	OSHA
Attapulgite 12174-11-7	-	Group 3 (< 5 microns)	-	Х
Quartz 14808-60-7	A2	Group 1	Known	Х

Legend

ACGIH (American Conference of Governmental Industrial Hygienists) A2 - Suspected Human Carcinogen IARC (International Agency for Research on Cancer) Group 1 - Carcinogenic to Humans Group 3 - Not Classifiable as to Carcinogenicity in Humans NTP (National Toxicology Program) Known - Known Carcinogen OSHA (Occupational Safety and Health Administration of the US Department of Labor) X - Present

**Reproductive toxicity** 

Not classified.

STOT - single exposure	Not classified
STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Target organ effects	Respiratory system.
Aspiration hazard	Not classified.

12. Ecological information		
Ecotoxicity	The environmental impact of this product has not been fully investigated.	
Persistence and degradability	Not readily biodegradable.	
Bioaccumulation	No information available.	
Mobility in soil	No information available.	
Mobility	Insoluble in water.	
Other adverse effects	No information available.	

13. Disposal consideration	13. Disposal considerations		
Waste treatment methods			
Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.		
Contaminated packaging	Do not reuse empty containers.		
14. Transport informatio	n		

DOT	Not regulated
TDG	Not regulated
MEX	Not regulated
IATA	Not regulated
IMDG	Not regulated

## 15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

#### International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

#### The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories	
TSCA	All components are listed on the TSCA Inventory.
DSL/NDSL	Complies.
EINECS/ELINCS	Complies.
ENCS	Complies.
IECSC	Complies.
KECL	Complies.
PICCS	Complies.
AICS	Complies.

Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances **PICCS** - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### US Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

#### US State Regulations

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals:.

Chemical name	California Proposition 65
Quartz - 14808-60-7	Carcinogen

#### **U.S. State Right-to-Know Regulations**

**US State Regulations** 

This product contains the following substances regulated by state right-to-know regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Quartz	Х	X	Х
14808-60-7			

Magnesium Oxide	-	Х	Х
1309-48-8			

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information								
NFPA	Health hazard	<b>s</b> 1	Flammability	0	Instability	0		Physical and chemical properties
HMIS	Health hazard	s 1*	Flammability	0	Physical ha	azards	0	Personal protection X
Key or legend to	abbreviations and ac	ronyms	used in the safet	y data	sheet			
Legend Section 8	EXPOSURE CONTR	OLS/PE	RSONAL PROTE		<u>.                                    </u>		_	
TWA	TWA (time-weighted	average)	S *	TEL	STEL	(Short	Term	Exposure Limit)
Celling					SKILL	uesigna	uon	
U.S. Environmenta European Food Sa EPA (Environment Acute Exposure Gi U.S. Environmenta Food Research Jo Hazardous Substa International Unifo Japan GHS Classi NIOSH (National In National Library of National Toxicolog New Zealand's Ch Organization for Ed Organization for Ed RTECS (Registry of World Health Orga	Il Protection Agency C Ifety Authority (EFSA) al Protection Agency) uideline Level(s) (AEG Il Protection Agency Fe Il Protection Agency Hi urnal nce Database rm Chemical Information fication nstitute for Occupations Medicine's ChemID Pl y Program (NTP) emical Classification a conomic Co-operation conomic Co-operation for Toxic Effects of Chemi nization	nemView L(s)) ederal Ins gh Produ on Datab al Safety us (NLM and Inform and Devo and Devo and Devo mical Sul	v Database secticide, Fungicio action Volume Ch ase (IUCLID) and Health) CIP) nation Database ( elopment Environ elopment High Pro elopment Screeni bstances)	de, anc emicals CCID) ment, H oductic ng Info	I Rodenticide Act s Health, and Safet on Volume Chemi rmation Data Set	ty Public icals Pro	cations	S 1
Prepared By	Р	roduct Sa	afety Department.					
Issuing Date	1:	3-Apr-20 <sup>-</sup>	19					
Revision date	1:	5-Apr-202	21					
Revision Note <u>Disclaimer</u>	R	evisions	to Sections 3, 8, 7	11, 15.				

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

#### **End of Safety Data Sheet**

# **APPENDIX D**

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# **GENERAL CONDITIONS OF THE NATIONWIDE PERMIT**

Requirement	Notes
No activity may cause more than a minimal	KMT will contact the USCG to confirm our activities
adverse effect on navigation.	in the Mobile River will be acceptable.
No activity may disrupt the life cycle movements	The drilling activities will not impound water or have
of aquatic life indigenous to the waterbody.	a crossing. No disruption to aquatic life will result
	from this operation.
Activities in spawning areas during spawning	This is not a spawning area.
seasons must be avoided to the maximum extent	
practicable.	
Activities in waters of the United States that serve	Nest surveys will be conducted ahead of the work to
as breeding areas for migratory birds must be	ensure no birds are in the work area.
avoided to the maximum extent	
practicable.	
No activity may occur in areas of concentrated	This is not an area of concentrated shellfish
shellfish populations	population.
Material used for construction or discharged must	Cuttings and water from potentially contaminated
be free from toxic pollutants in toxic amounts	areas will be captured and not discharged. No
	cuttings will be discharged to WOTUS. Water that
	contains a drilling additive that might violate water
	quality standards will also be captured.
No activity may occur in the proximity of a public	This is not an area of public water supply intake.
water supply intake	
If the activity creates an impoundment of water,	This activity will not impound water.
restricting its flow must be minimized to the	
maximum extent practicable.	
To the maximum extent practicable, the pre-	This activity will not impact open water flows.
construction course, condition, capacity, and	
location of open waters must be maintained.	
The activity must comply with applicable	No FEMA requirements are applicable.
FEMA-approved state or local floodplain	
requirements.	
Heavy equipment working in wetlands or mudflats	Specialized equipment will be used in marshy areas
must be placed on mats, or other measures must	that will put much less pressure (150 to 200 psf) on
be taken to minimize soil disturbance.	the surface than a traditional drill rig. Mats will be
	considered in locations where the tracked
	amphibious buggy is not used.
Appropriate soil erosion and sediment	A BMP plan will be developed in accordance with the
controls must be used and maintained in effective	WQC.
operating condition during	
construction, and be stabilized asap.	Nie te service als als and the service and the service service and the service ser
nemporary structures and fills must be removed,	No temporary structures will be used, and no
and the affected areas returned to pre-	temporary hils are anticipated.
construction elevations. The affected areas must	
pe revegetated, as appropriate.	

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Requirement	Notes
The activity must be a single and complete	This boring operation is a single and complete
project.	project. A second NWP 6 will be used for the load
The same NWP cannot be used more than once for	test pile program, which is also a stand-alone (single
the same single and complete project.	and complete) operation.
No NWP activity may occur in a component of the	The Mobile River is not a Wild and Scenic River.
National Wild and Scenic River System.	
No activity or its operation may impair reserved tribal rights.	This activity will not impair tribal rights.
No activity is authorized under any NWP which	An ESA section 7 consultation has been completed.
"may affect" a listed species or critical	An Incidental Take Permit from USFWS for Gulf
habitat, unless ESA section 7 consultation	Sturgeon and Red-Bellied turtle as a result of
addressing the consequences of the	construction activities related to the Bayway
proposed activity on listed species or critical	widening may be required.
habitat has been completed.	
	Requirements from the take permit are related to
	fencing off work areas so turtles can't get in, and
	potentially monitoring for animals.
Non-federal permittees must submit a pre-	This work is done under an EIS signed by FHWA – a
construction notification to the district engineer if	federal permittee.
any listed species (or species proposed for listing)	
or designated critical habitat (or critical habitat	
proposed such designation) is in the vicinity of the	
activity and shall not begin work on the activity	
until notified by the district engineer that the	
requirements of the ESA have been satisfied.	
No activity is authorized under any NWP which	No properties listed or eligible for listing will be
may have the potential to cause effects to	affected.
properties listed until the requirements of Section	
106 of the National Historic Preservation Act	
(NHPA) have been satisfied.	
Compensatory mitigation at a minimum one-for-	Wetland losses for this activity will not exceed 1/10
one ratio will be required for all wetland losses	acre.
that exceed 1/10-acre and require pre-	
construction notification.	
Compensatory mitigation at a minimum one-for-	No stream bed losses are anticipated.
one ratio will be required for all losses of stream	
bed that exceed 3/100-acre and require pre-	
construction notification.	
The activity must comply with any regional	Additional requirements will be met from the
conditions that may have been added by the	Alabama 401 WQC conditions. The CZM
Division Engineer (see 33 CFR 330.4(e)) and with	determination does not have any additional
any case specific conditions added by the Corps or	requirements.
by the state, Indian Tribe, or U.S. EPA in its CWA	
section 401 Water Quality Certification, or by the	

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state in its Coastal Zone Management Act	
consistency determination.	
consistency determination. Activities Affecting Structures or Works Built By the US: If an NWP activity alters or temporarily or permanently occupies a USACE federally authorized Civil Works project, the prospective permittee must submit a pre-construction notification. See paragraph (b)(10) of general condition 32. An activity that requires section 408 permission and/or review is not authorized by an NWP until the appropriate Corps office issues the section 408 permission or completes its review to alter,	Due to the proximity of our bores to the USACE Navigational Channel, it was recommended that we reach out to discuss our operations. We will not alter, occupy, or use the USACE project, so no PCN is anticipated.
occupy, or use the USACE project, and	
the district engineer issues a written NWP	
verification.	

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Requirement	Notes
1. During project implementation, the applicant	NPDES: No person shall discharge pollutants into
shall ensure compliance with applicable	waters of the state without first having obtained a
requirements of ADEM. Admin. Code Chapter 335-	valid NPDES permit or coverage under a valid
6-6 [National Pollutant Discharge Elimination	General NPDES Permit unless such discharge is of
System (NPDES)], Chapter 335-6-10 (Water Quality	dredged or fill material which is regulated under
Criteria), and Chapter 335-6-11 (Water Use	Section 404 of the FWPCA. – Potential discharge
Classifications for Interstate and Intrastate	will be covered by the NWP 6.
Waters).	
	9. Turbidity: KMT will monitor turbidity to ensure
	that no increase of 50 or greater NTU above
	background is allowed.
	Ala. Admin. Code r. 335-6-1009
The applicant shall implement a project-specific or	A project-specific BMP plan will be developed for
a detailed general BMP Plan prepared by an	the work, and BMPs will be inspected weekly.
ADEM recognized qualified credentialed	
professional (QCP) applicable to and commensurate	
with activities of the type proposed.	
The applicant shall implement a Spill Prevention	A spill plan will be developed, but the fuel storage
Control and Countermeasures (SPCC) Plan for all	threshold for an SPCC plan is not expected to be
temporary and permanent onsite fuel or chemical	met.
storage tanks or facilities consistent with the	
requirements of ADEM Admin.	
The applicant shall implement appropriate,	Turbidity will be monitored to ensure that our
effective BMPs, including installation of floating	operations don't cause an increase in turbidity of
turbidity screens as necessary, to minimize	over 50 NTUs above background.

#### Clean Water Act (CWA) Section 401 Water Quality Certification (WQC)

downstream turbidity to the maximum extent	
practicable. The applicant shall visually monitor or	
measure background turbidity. The applicant must	
suspend operations should turbidity resulting from	
project implementation exceed background	
turbidity by more than 50 NTUs.	
The applicant shall evaluate, characterize, and as	Water and cuttings will be captured for disposal
necessary, conduct regular analysis of any	upland or off-site.
material proposed to be	
dredged/removed/disturbed to ensure that	
potential pollutants are not present in	
concentrations that could cause or contribute to a	
violation of applicable water quality	
standards.	

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