PAINT AND OIL LOCKER, SWMU 067 SOUTHERN TREATMENT AREA AIR SPARGE SYSTEM CONSTRUCTION COMPLETION AND PERFORMANCE MONITORING AND

PAINT AND OIL LOCKER, NORTHERN AREA (SWMU 067) AND SUPPLY WAREHOUSE #3, SWMU 088 LONG-TERM MONITORING REPORT KENNEDY SPACE CENTER, FLORIDA

Prepared for:



National Aeronautics and Space Administration Kennedy Space Center, Florida

> February 2023 Revision 0

Prepared by:

Tetra Tech, Inc. 661 Andersen Drive Pittsburgh, PA 15220 (412) 921-7090

APPENDIX A

PHOTOGRAPHIC LOG OF SOUTHERN TREATMENT AREA AIR SPARGE SYSTEM CONSTRUCTION COMPLETION ACTIVITIES



Figure 1: 3/13/2020 4:21:13 PM; Looking west, GN2 utility markings.



Figure 2: 3/13/2020 4:21:20 PM; Looking east, GN2 utility markings.



Figure 3: 3/20/2020 4:39:24 PM; Looking south, IDW frac tank and material laydown area.



Figure 4: 3/20/2020 4:40:37 PM; Looking south, excavated trenches for Zones 6, 7, and 8 lateral piping.



Figure 5: 3/20/2020 4:42:10 PM; Looking west, excavated trenches for Zones 6, and 7 lateral piping.



Figure 6: 4/3/2020 4:09:42 PM; Looking southwest, excavation preparation of manifold trailer area.



Figure 7: 4/7/2020 3:24:09 PM; Looking west, mixing concrete for setting pipe racks in manifold trailer area.



Figure 8: 4/7/2020 3:49:08 PM; Looking southwest, erected pipe racks in manifold trailer area.



Figure 9: 4/7/2020 3:49:28 PM; Looking southwest, erected pipe racks in manifold trailer area and excavated trenches for Zones 6, 7, and 8 lateral piping.



Figure 10: 4/10/2020 3:27:11 PM; Looking south, spreading trench spoils to prepare path for deploying late piping in Zones 6, 7, and 8.



Figure 11: 4/10/2020 3:28:37 PM; Looking southeast, excavating trenches for Zones 1 and 2.



Figure 12: 4/10/2020 3:28:56 PM; Looking east, excavating trenches for Zones 1 and 2.



Figure 13: 4/16/2020 12:10:07 PM; Welding 1-inch HDPE lateral to tee for connection to air sparge well.



Figure 14: 4/16/2020 12:10:21 PM; PVC gluing 1-inch lateral to tee to air sparge well.



Figure 15: 4/21/2020 3:49:29 PM; Looking west, excavating trenches for Zones 3 and 4.



Figure 16: 5/1/2020 3:28:18 PM, Looking northwest, laterals in pipe racks and trenching network for Zones 1-4.



Figure 17: 5/1/2020 3:29:22 PM; Looking southeast, backfilled and partially graded trenches in Zones 5-8.



 $\textit{Figure 18:} \ 5/1/2020\ 3:33:29\ PM; \ Looking\ west,\ backfilled\ and\ partially\ graded\ trenches\ in\ Zones\ 7-8.$



Figure 19: 5/1/2020 3:33:39 PM; Looking north, backfilled and partially graded trenches in Zones 5-8.



Figure 20: $5/7/2020\ 11:57:50\ AM$; Looking west, grading trenches in Zones 7-8.



Figure 21: 5/8/2020 7:59:26 AM; Removal of IDW for T&D.



Figure 22: 5/12/2020 10:14:00 AM; Looking west, placement of warning tape and wire in partially backfilled trenches.



Figure 23: 5/15/2020 2:26:14 PM; Looking west, excavation for placement of header piping.



Figure 24: 5/15/2020 2:26:55 PM; Looking southwest, excavated trench for placement of header piping.



Figure 25: 5/15/2020 2:27:11 PM; Looking east, excavated trench for placement of header piping and installation of barricade signage.



Figure 26: 5/19/2020 10:05:25 AM; Looking southwest, deployment of 2-inch HDPE header piping.



Figure 27: 5/19/2020 12:03:37 PM; Demobilization of IDW frac tank.



Figure 28: 5/19/2020 2:15:52 PM; Adding a new spool of 2-inch HDPE piping to pipe reel for deployment.



Figure 29: 5/20/2020 10:25:21 AM; Welding 2-inch HDPE header piping with hot plate.



Figure 30: 5/21/2020 9:37:07 AM; Looking northeast, backfilling and placement of warning tape and wire in header trench.



Figure 31: $11/24/2020\ 10:30:27\ AM$; Looking west, excavation of electrical conduit trench and placement of formwork for transformer pad.



Figure 32: 11/24/2020 11:46:54 AM; Looking east, installation of electrical conduit and ground wire.



Figure 33: 11/24/2020 4:28:29 PM; Rebar reinforcement in transformer pad.



Figure 34: 12/9/2020 8:48:03 AM; Placing transformer on transformer pad.

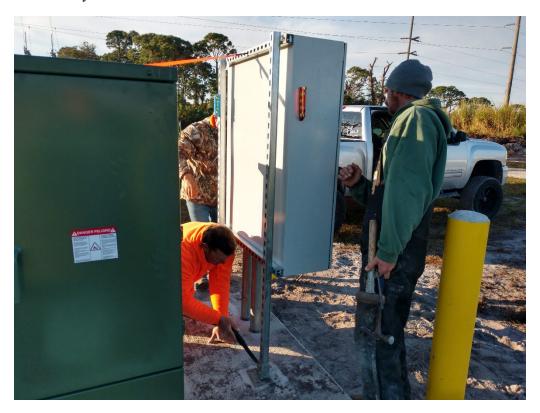


Figure 35: 12/10/2020 8:14:07 AM; Erecting disconnect on transformer pad.;



Figure 36: 12/10/2020 11:08:53 AM; Installed and anchored disconnect on transformer pad.



Figure 37: 12/10/2020 11:09:42 AM; Installing flexible conduit to tie rigid conduit to the air sparge trailer.



Figure 38: 12/10/2020 12:53:28 PM; Looking east, installing electrical cable.



Figure 39: 12/10/2020 1:03:56 PM; Looking southeast, installing electrical cable.



Figure 40: 12/10/2020 3:09:42 PM; Making electrical connections in disconnect.



Figure 41: 12/17/2020 3:29:39 PM; Testing transformer.



Figure 42: $1/11/2021\ 10:10:52\ AM$; Looking east, installing $\frac{1}{2}$ -inch flex hose to connect laterals to the legs within the manifold trailer.

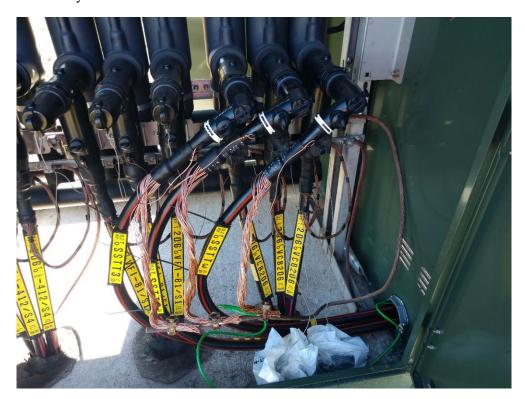


Figure 43: 1/20/2021 1:02:39 PM; Transformer connections within LBS 415.

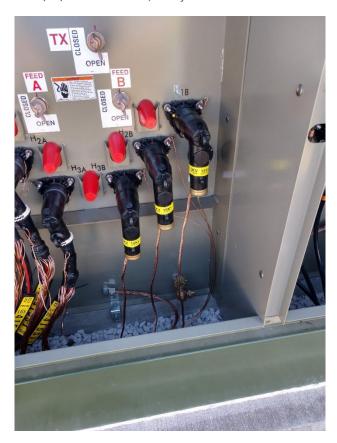


Figure 44: 1/21/2021 1:24:00 PM; Connections within transformer from disconnect.



Figure 45: 1/21/2021 1:24:08 PM; Connections within transformer from LBS 415.

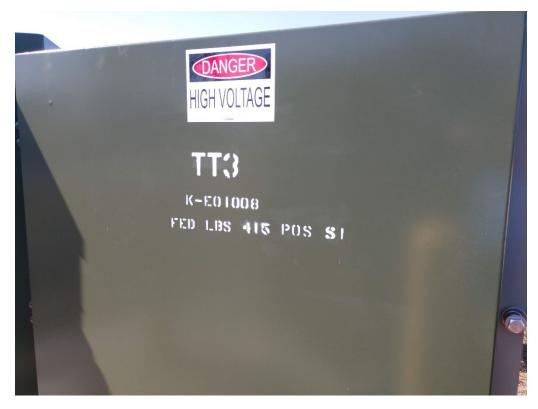


Figure 46: 1/21/2021 1:24:16 PM, Labelling of new transformer.

APPENDIX B AIR SPARGE SYSTEM INSTALLATION PERMITS AND FORMS

UTILITY LOCATE/EXCAVATION PERMIT REQUEST

1. Date 2. Master Planning 9		ng Site Plan No.	Site Plan No. 3. Project (F		4. Work Order No.	5. Check One		
						Permit to Dig		
						Locate Only/		
						└─ No Digging		
6. Requester's	s Name (REQUIRE	E D) 7. Email (R	7. Email (REQUIRED)		e No. (REQUIRED)	9. Fax No. (REQUIRED)		
10. Requester	r's Company (REC	QUIRED)		11. Mail Code/Address				
12. Technical (Contact (REQUIRE	ED) 13. Email (13. Email (REQUIRED)		ne No. (REQUIRED)	15. Fax No. (REQUIRED)		
16. KSC NASA	A Contact Name	(REQUIRED)		17. Ema	ail (REQUIRED)	18. Phone No. (REQUIRED)		
19. Building No	o. (REQUIRED)	20. Grid No. (RE	QUIRED)	21. Secondary Location (Bldg. No./Add. Info.) (REQUIRED)				
22. Estimated	Start Date (REQU	IRED)		23. Estimated End Date (REQUIRED)				
24. Emergency	y request justifica	tion <i>(if required)</i>						
25 Reason for	r permit/Statemer	ot of work (REOLI	IBED)					
20. 1 (000011101	perminotatemen	it of work (NEQO	ii(LD)					
MAP/SKETCH, WITH AREA TO BE LOCATED/EXCAVATED CLEARLY MARKED, IS ATTACHED (REQUIRED)								

See next page for completion and process instructions.

INSTRUCTIONS

Please complete as many fields as possible.

NOTE: ALL FIELDS INDICATING "(REQUIRED)" MUST PROVIDE INFORMATION.

Block 1	Date submitted.
Block 2-4	Provide related Site Plan, PCN or Work Order Numbers.
Block 5	Check one. If you are NOT going to dig, but need an underground utility locate, check "Locate Only".
Block 6-18	Enter the name, email address, phone, fax number, company name, and address of the person who will be receiving this permit including KSC NASA Contact for Project.
Block 19-20	Enter the building number where work will be performed (or closest building number).
Block 21	Enter additional information as necessary.
Block 22	Enter the date excavation is expected to begin.
Block 23	Enter the date excavation is expected to be complete. Permit will be closed on this date. End date may not be longer than one year from the start date.
Block 24	If excavation is of an emergency nature and requires priority, enter justification.
Block 25	Enter a description of why this permit is being requested, i.e., what work will be performed and why.

REQUIRED: ATTACH A MAP/SKETCH WITH AREA TO BE LOCATED/EXCAVATED CLEARLY MARKED.

- 1. Email, fax or hand-carry this request, along with a map, drawing or sketch to the Excavation Permit Request (EPR) Administrator using the contact information below.
- 2. You may contact the EPR Administrator using the contact information below if you have any questions on the dig permit process.
- 3. To schedule an appointment with the Excavation Permit Inspectors to locate underground utilities and/or obtain an approval signature on this permit to dig, Requester should phone the Excavation Permit Inspectors' Office (321-476-4494/3799) at least 72 hours prior to digging.
- 4. Requester should notify the EPR Administrator when excavation is complete.
- 5. Permits may be extended for up to one year by calling the EPR Administrator, but all permits will be closed upon expiration unless notified.

EPR Administrator

Location	KSC Headquarters, M6-0399, Room 3145		
Mail Code	ISC-4026		
Phone	(321)867-2406		
Fax	(321)867-1175		
Email	KSC-ISC-DIGPERMIT@mail.nasa.gov		

Emergency requests will be processed on a real time basis
through the ISC Duty Office 861-5050, Fax (861-1627)
or Email - KSC-ISC-DutyOffice@mail.nasa.gov

FIGURE 1-1 SUPPLY WAREHOUSE #3 AND PAINT AND OIL LOCKER AREA LOCATION MAP SWMU 067 & 088, KENNEDY SPACE CENTER, FLORIDA

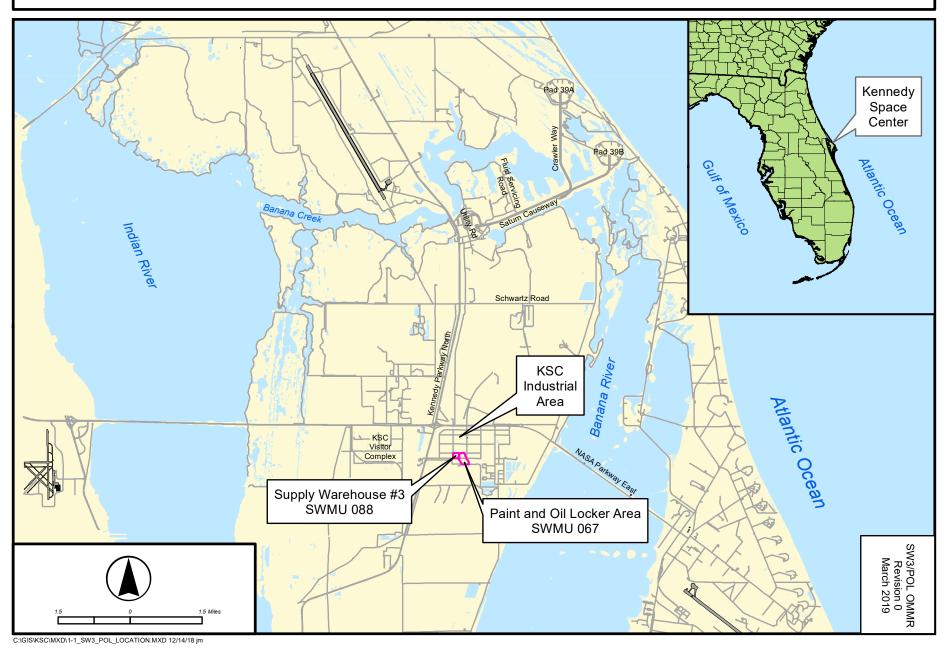


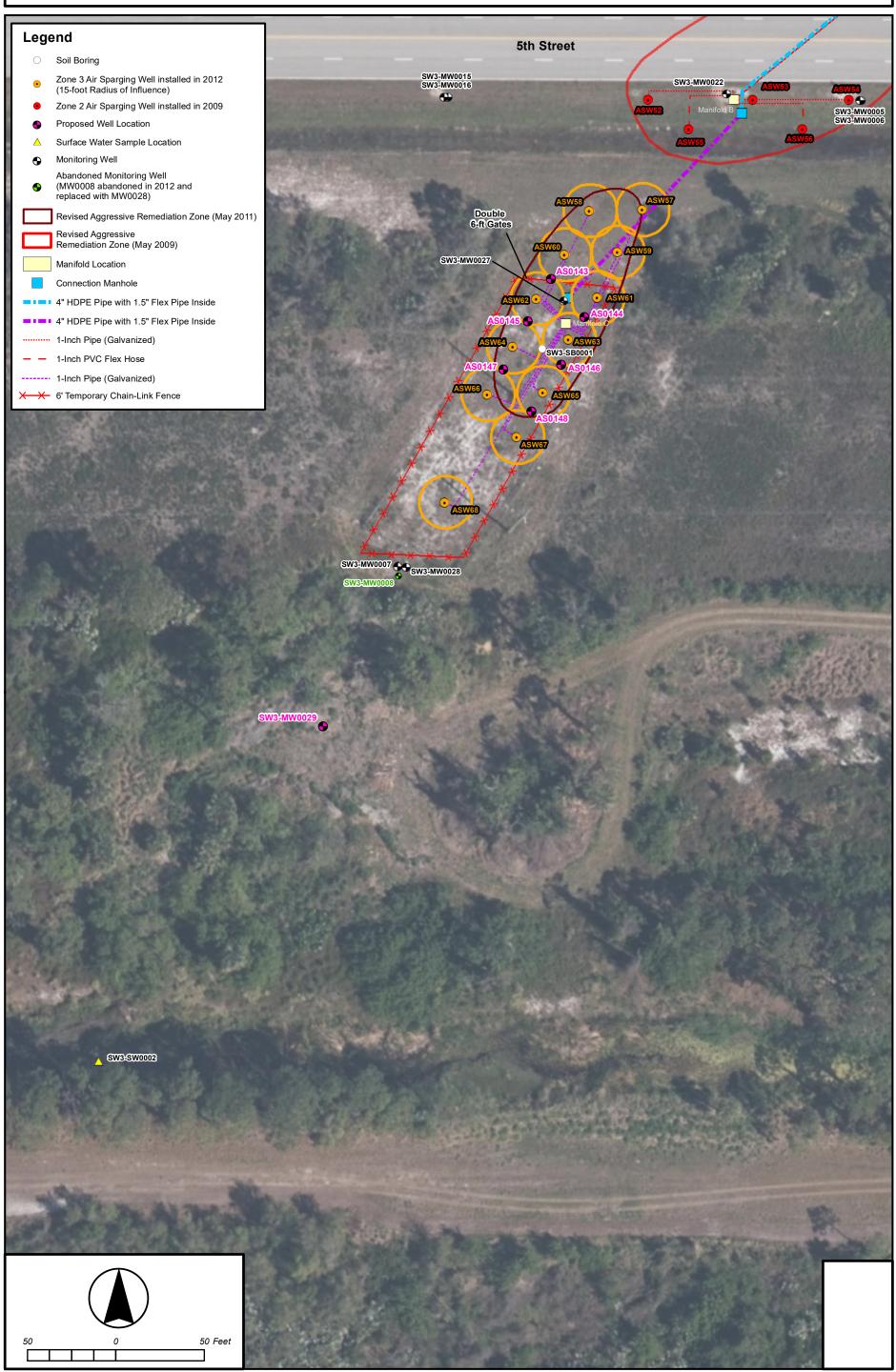
FIGURE 1-2 - VOC PLUME AND MONITORING WELL LOCATIONS FOR POL AND SW3

SWMU 067 & 088, KENNEDY SPACE CENTER, FLORIDA





FIGURE 2-1 AIR SPARGING SYSTEM WELLS, PIPING, AND SYSTEM EVALUATION SAMPLING LOCATIONS
SWMU 088, KENNEDY SPACE CENTER, FLORIDA



Murphy, Alex

From: irth_host@callsunshine.com

Sent: Monday, September 9, 2019 1:49 PM

To: Murphy, Alex

Subject: SSOCOF CONFRM 2019/09/09 #00000 252909287-000 NORM NEW

⚠ CAUTION: This email originated from an external sender. Verify the source before opening links or attachments. ⚠

CONFRM 00000 CALL SUNSHINE 09/09/19 13:48:55ET 252909287-000 GRID Ticket : 252909287 Rev:000 Taken:

09/09/19 13:39ET

State: FL Cnty: BREVARD GeoPlace: MERRITT ISLAND

CallerPlace: MERRITT ISLAND

Subdivision:

Address:

Street: C AVE SE Cross 1: 5 ST SE Within 1/4 mile: Y

 $Locat: LOCATE\ THE\ ENTIRE\ RECTANGLE\ SHAPED\ WOODED\ AREA\ WITHIN\ 600\ FT\ S\ AND\ 1400\ FT\ W\ FROM$

THE INTER OF C AVE SE AND 5 ST SE

:

Remarks: *** LOOKUP BY MANUAL ***

:

Grids: 2830A8039B 2830A8039C 2830A8039D

Work date: 09/11/19 Time: 23:59ET Hrs notc: 058 Category: 3 Duration: 01 YR Due Date: 09/11/19 Time: 23:59ET Exp Date: 10/09/19 Time: 23:59ET Work type: ENVIRONMENTAL SAMPLING Boring: Y White-lined: N Ug/Oh/Both: U Machinery: Y Depth: 65 FT Permits: N N/A Done for: NASA KENNEDY SPACE CENTER

Company: TETRA TECH INC Type: CONT

Co addr: 11 RIVERSIDE DR

Co addr2: STE 204

City: COCOA State: FL Zip: 32922

Caller: ALEX MURPHY Phone: 321-292-0842 Contact: ALEX MURPHY Phone: 321-292-0842

BestTime: ANYTIME

Email: ALEX.MURPHY@TETRATECH.COM

Submitted: 09/09/19 13:39ET Oper: ART

Mbrs: CTYGS2 SB2186 SBF02

Avoid Verbal Orders

TO: SI-E2/Dinh Vo DATE: 08/26/2019

FROM: SI-E3/Environmental Management Branch

SUBJECT: KSC Record of Environmental Consideration (REC)

REC #: 10774

1. PROJECT INFORMATION

Project Title: Interim Measure Activities at the Paint and Oil Locker and Supply Warehouse #3

Project Lead: Dinh Vo, SI-E2, 867-5964 Project No.: SI 8-23-19 Warehouse #3

Project Description: Activities at the site include monitoring well (MW) installation, DPT groundwater sampling, soil boring collection, and air sparge (AS) system expansion to monitor and remediate groundwater at the Paint and Oil Locker and Supply Warehouse #3, located as shown on Figures 1-1 and 1-2. The MW installation will be completed to a maximum depth of 60 feet below land surface (bls) within the Investigation Area identified on the attached MW Location map. Expansion of the AS system will involve trenching, infrastructure installation (AS trailer, temporary fence, compressed air piping and electrical), and drilling. Trenching will be conducted to a maximum depth of 3.0 feet bls and drilling of AS wells will occur to a maximum depth of 60 feet bls. The trenching layout and AS well location and monitoring well areas are attached for the Southern Treatment Area (SWMU 067) and Supply Warehouse #3 (SWMU 088). The AS system will remain in-place until the remediation goals are achieved.

EPB Reviewer: TLP **Facility No.:** S of 5th, W of Orsino Substation

2. NEPA DETERMINATIONS				
☑ a. Categorical Exclusions per 14 CFR	e. Centerwide EIS			
□ b. Environmental Assessment (EA) R	☐ f. AF Project on KSC/813			
C. Environmental Impact Statement (g. NASA Project on CCAFS/813			
d. Existing FONSI or ROD				
3. ENVIRONMENTAL REQUIREMENTS	1			
a. Non-Permit Requirements	✓ YES	□ NO		
h Permit Requirements	√ YES	Пио		

2.a.1. CATEGORICAL EXCLUSION (CATEX): This project is categorically excluded (CATEX) from further NEPA review as defined in 14 CFR 1216.304(d)(2)(ii) Installation or removal of equipment, including component parts, at existing Government or private facilities. For additional information, please contact Don Dankert of the NASA Environmental Management Branch (SI-E3, 321-861-1196).

3.a.1. SOLID WASTE MANAGEMENT UNIT (SWMU)/POTENTIAL RELEASE LOCATION (PRL) SITES: The proposed project is located within the boundary of several identified SWMU and PRL sites being investigated by the Remediation Group of the NASA Environmental Assurance Branch (SI-E2). These areas are being investigated by the NASA Remediation Group under Remediation Project Managers (RPM) listed below. A Land Use Control Implementation Plan (LUCIP) has been prepared for the SWMUs as identified below. These controls are necessary to prohibit residential exposure to soil and/or groundwater present at the site. All workers involved in subsurface/dewatering work must be notified (HAZCOM) of the potential for contamination present. Contact the NASA RPM for further guidance regarding handling of soil and/or groundwater at this location. Contact your company's Safety and Health Office or KEMCON/IMSS Industrial Hygiene (IH) for recommendations on personal protective equipment (PPE). KEMCON IH can be contacted at 867-2400 or at KSC-DL-EnvHealth/(KSC-DL-EnvHealth@mail.nasa.gov).

SWMU 018, "Polishing Pond": No Further Action (NFA).

SWMU 067, "POL Area": LUCIP for contaminated soil and groundwater. RPM Dinh Vo. SI-E2, 867-5964. SWMU 088, "Supply Warehouse #3": LUCIP for contaminated groundwater. RPM Dinh Vo. SI-E2, 867-5964.

PRL 237, PFOS and PFOA Areas of Concern: LUCIP groundwater. RPM Anne Chrest, SI-E2, 867-2056

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TO: SI-E2/Dinh Vo DATE: 08/26/2019

FROM: SI-E3/Environmental Management Branch

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3.a.2. HAZARDOUS/NON-HAZARDOUS WASTE: All hazardous and non-hazardous wastes generated during the interim measure must be properly containerized, stored, labeled, manifested, shipped, and disposed of in full regulatory compliance. Hazardous wastes generated by this activity must be manifested, shipped, and disposed of under either the remediation contractor's or NASA's Environmental Protection Agency (EPA) identification number. The contractor shall maintain copies of waste management records and manifests onsite and make them available for review by NASA upon request.

If wastes are managed, controlled and disposed of using the NASA EPA identification number, the KSC Waste Management requirements outlined in KNPR 8500.1 must be followed. A Process Waste Questionnaire (PWQ), KSC Form 26-551 along with any supporting documentation (MSDS, product formulation, lab analyses) must be submitted to the KEMCON/IMSS Waste Management Office for each waste stream generated. That office will then generate a Technical Response Package (TRP) which will give direction on proper handling, storage, and disposal of the waste stream. Please contact KEMCON/IMSS Waste Management Services at 867-8640 if assistance is required.

The remediation contractor is responsible for any spills, releases, or other environmental contamination that occurs as a result of the proposed activities. A KSC Pollution Incident Report (PIR) Form (KSC Form 21-555) must be completed and submitted to the NASA Environmental Assurance Branch within three (3) calendar days of the incident.

- 3.a.3. THREATENED AND ENDANGERED SPECIES: This project has the potential to affect protected and/or threatened and endangered species; which may include the Florida scrub jay, Eastern indigo snake, and gopher tortoises. Measures must be taken to minimize impacts to their habitat. A biological survey will be required to identify potential impacts prior to disturbances. Please contact Becky Bolt (IMSS-200, 867-7330), 14 days prior to beginning work to schedule a biological survey. If vegetation clearing or any disturbance of vegetated areas is necessary, a biological survey will be required to identify potential impacts to habitat and wetlands prior to disturbances. Please contact Becky Bolt (IMSS-200, 867-7330) to schedule a biological survey as soon as locations of vegetation impacts are known.
- 3.a.4. EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs): Precautions must be made to eliminate or reduce to the greatest extent possible any discharge of sediments outside established project boundaries. This can be accomplished by initiating proactive erosion control BMPs. Installation and maintenance of appropriate erosion/sediment control devices (such as wattles, turbidity screens, silt fences, inlet protectors, floating turbidity booms, etc.) must be completed prior to initial land disturbance where the possibility of sediment discharge could impact surrounding stormwater conveyances and other surface waters. The BMPs must be maintained so they remain functional until such time that the newly exposed soils are stabilized with sod or natural vegetation.
- 3.b.1. EXCAVATION PERMIT: A KSC Excavation Permit will be required for any digging proposed by this project. Please contact the Utility Locate/Excavation Permit Request Customer Helpline at 867-2406 or go to website at http://epr.ksc.nasa.gov/Home/ for an underground utility scan and dig permit. NOTE: If a trench or pit is to be left open all day or overnight, the trench/pit must be checked for trapped animals at the beginning and end of each work shift. If an animal is observed trapped, contact Becky Bolt (IMSS-200, 867-7330) or the Duty Office (861-5050, email KSC-ISC-DutyOffice@mail.nasa.gov) to arrange removal/release. Do not handle the animal(s).
- 3.b.2. PERMITTED STORMWATER ERP: The project area is covered under an existing Environmental Resource Permit (ERP) stormwater system 16585, "Region 1" issued by the St. Johns River Water Management District (SJRWMD) and is subject to periodic inspection by the regulator. Ensure the final configuration of the stormwater

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TO: SI-E2/Dinh Vo DATE: 08/26/2019

FROM: SI-E3/Environmental Management Branch

SUBJECT: KSC Record of Environmental Consideration (REC)

REC #: 10774

system swales/slopes/berms, etc., and final dimensions of the structures meet the engineering requirements of the permitted stormwater facility. For more information, contact Doug Durham (SI-E2, 867-8429).

3.b.3. FDEP NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION ACTIVITY PERMIT: This project may require an NPDES Phase II construction permit. If 1 acre or more of land will be disturbed, a NPDES Construction Activity Permit from the Florida Department of Environmental Protection (FDEP) is required under F.A.C. 62-621.300(4), Notice of Intent to Use Generic Permit for Stormwater Discharge from Large (If over 5 Acres) and Small (1 Acre To 5 Acres) Construction Activities. http://www.dep.state.fl.us/water/stormwater/npdes/forms/cgp_noi.pdf. This includes construction activity which will disturb less than one acre of land area that is part of a larger common plan of development that will ultimately disturb equal to or greater than one acre of land. Construction activity does not include routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of the site. A condition of this permit is to provide a Stormwater Pollution Prevention Plan (SWPPP) detailing erosion and turbidity controls for the site. Information on completing the permit application and development of the SWPPP can be obtained by contacting Doug Durham (SI-E2, 867-8429).

NOTE: Work site within perimeter greater than 1 acre.

3.b.4. ENVIRONMENTAL RESOURCE PERMIT (ERP): Wetland permits from the St. Johns River Water Management District (SJRWMD) may be required for the proposed project. The project proponent shall prepare all permit applications and pay any application fees. Application forms with supporting material such as maps and engineering drawings must be submitted to the EAB (Doug Durham, SI-E2, 867-8429) for review and NASA signature. An electronic version in PDF format should also be provided. No work can be performed until the permit process is completed.

NOTE: Previous STP-1 percolation pond located within project may be a concern.

- 3.b.5. WATER WELL: Installation or abandonment of a water well requires use of a licensed contractor, a KSC dig permit, and registration of the well with St. Johns River Water Management District (SJRWMD). Contact Doug Durham (SI-E2, 867-8429) for details.
- 3.b.6. AIR EMISSIONS: NASA/KSC has Remedial Activities listed on the Title V Air Permit as an insignificant activity. The proposed groundwater remediation system would be considered insignificant if the Remediation system/unit/activity would not emit or have the potential to emit (PTE):
- a. 500 pounds per year or more of lead and lead components expressed as lead;
- b. 1,000 pounds per year or more of any hazardous air pollutant;
- c. 2,500 pounds per year or more of total hazardous air pollutants; or
- d. 5.0 tons per year or more of any other regulated pollutant, Per Rule 62-213.430(6), F.A.C.

If the above criteria cannot be met, a construction permit would be required. Contact the Environmental Assurance Branch (Zach Hall, SI-E2, 867-5178) if you have any questions.

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TO: SI-E2/Dinh Vo	DATE: 08/26/2019
FROM: SI-E3/Environmental Management Branch	
SUBJECT: KSC Record of Environmental Consideration (REC)	REC #: 10774
No other environmental issues were identified based upon the information provided in the This Record of Environmental Consideration (REC) does not relinquish the project lead frow ith any other internal NASA permits or directives necessary to ensure all organizations project are notified and concur with the proposed project.	m obtaining and complying
Due to potential changes in regulations, permit requirements and environmental conditions valid for 6 months, and subject to review after this period. It is the responsibility of the project information for a REC update prior to project commencement if REC is older than 6 the Environmental Management Branch (SI-E3) if the scope of the project changes at any	ect lead to submit current 6 months; and also to notify
D. Vo / SI-E2 cc: D. Durham / SI-E2 B. Bolt / IMSS-200 M. Jonnet / Tetra Tech	
4. Upon evaluation of the subject project, the above determinations have been made Environmental Management Branch (SI-E3) at 861-1196 for re-evaluation should then the scope of work.	

James Brooks

08/26/2019 12:30

Date

Murphy, Alex

From: Jonnet, Mark

Sent: Thursday, September 12, 2019 12:35 PM

To: Murphy, Alex

Subject: FW: Approved: EPR 19280 Permit Request Submitted by Mark Jonnet -- EPR

Attachments: Excavation-Permit-Request_POL-201908_2019_8_26_10_53_43_729.pdf; 19280-map.png

Importance: High

From: EPR NASA <ksc-BOSS-digpermit@mail.nasa.gov>

Sent: Monday, September 9, 2019 12:13 PM **To:** Jonnet, Mark < Mark. Jonnet@tetratech.com>

Cc: dinh.x.vo@nasa.gov; dinh.x.vo@nasa.gov; ksc-BOSS-digpermit@mail.nasa.gov **Subject:** Approved: EPR 19280 Permit Request Submitted by Mark Jonnet -- EPR

Importance: High

⚠ CAUTION: This email originated from an external sender. Verify the source before opening links or attachments. ⚠

Permit Request: 19280 (Status: Approved)

<u>IMPORTANT</u>: If digging does not begin within 21 days from the time of utility locate (permit approval), this permit shall be suspended and a new locate will be required. Please call at least 72 hours prior to digging to schedule utility locates.

The Excavator shall maintain a copy of the EPI signed/ approved permit on site at all times.

The Excavator is required to contact BOTH authorities to schedule utility locates:

- 1) Locator support for non-managed KSC utilities (ex. Florida City Gas, AT&T, etc.): Sunshine 811 at 800-432-4770 or 811 (cell). Create an account and request at www.online811.com
- 2) Locator support for KSC managed utilities: Primary: 321-749-4840 Alternate: 321-529-4796

	Sunshine 811 Suggested Location Information
Location	S side 5th ST SE, between B & C Ave SE

The Excavater is required to obtain a Sunshine 811 ticket number prior to ISC locates being performed.

You must call Sunshine 811 prior to contacting ISC locators to obtain your Sunshine 811 ticket number. Please copy this ticket number on to your approved Excavation Permit Request (EPR) email and show it to the KSC EPI prior to ISC performing KSC utility locates. This is to be completed prior to calling KSC EPI for locate.

The Excavator is required to only obtain signature of KSC Excavation Permit Inspector:

You must schedule a KSC EPI to meet with you on site for the KSC utility locate and to obtain their required signature this permit before excavation can commence.

IMPORTANT INFORMATION:

- EPR will be immediately cancelled should digging begin prior to approval from the EPI.
- Utility Locate/EPR will be immediately cancelled if original EPI paint markings are not maintained.
- You must hand dig within 24 inches in either direction of all EPI paint markings.
- Do **not remove or disturb thrust blocks.** A thrust block is a configured piece of concrete located underground at water and sewer utility piping to prevent movement from line pressure fluctuations. When excavating soil at location known to contain buried water or sewer lines, **do not remove any buried concrete without prior approval.**
- An EPR can remain in the approval status is one year. All work expecting to extend longer than one year must be re-submitted as a new request, including an updated map and scope of work.
- If the scope of work for the original Utility Locate/EPR is changed or the completion date needs to be extended, you are required to call ISC Master Planning Office 321-867-2406.
- When the job is complete, please call the ISC Master Planning Office 321-867-2406. This permit will be closed upon expiration unless an extension is requested.
- Accidental Utility line damage, excluding Gas main damage, call the ISC Duty Office at 321-861-5050.
- Accidental Gas Main damage evacuate the area then call 321-867-7911 (cell) or 911 (landline only), call the ISC Duty Office at 321-861-5050.
- Category Code V Permits must call the ISC Duty office daily and observe all critical days as directed by the ISC Duty Office.

EPR Contact Information:

EPR Administrator's Information:

Questions regarding your Utility Locate/Excavation Permit Request, such as approving, revising the time or scope of work, updating any information within this permit.	EPR Administrator Phone: 321-867-2406 Fax: 321-867-1175 Email: KSC-ISC- DIGPERMIT@mail.nasa.gov
Questions regarding your Utility Locate/Surveying, such as utilities markings and area surveying.	EPI Supervisor Phone: 321-861-7945 Fax: 321-861-6556 Email: david.j.irwin@nasa.gov
Questions regarding Florida City Gas owned natural gas utilities <u>not including:</u> emergencies, gas leaks, and locate requests.	Florida City Gas Sr. Account Executive Phone: 786-459-3655 Fax: 772-871-2044 Email: FSmalley@aglresources.com

Permit Request: 19280 (Status: Approved)

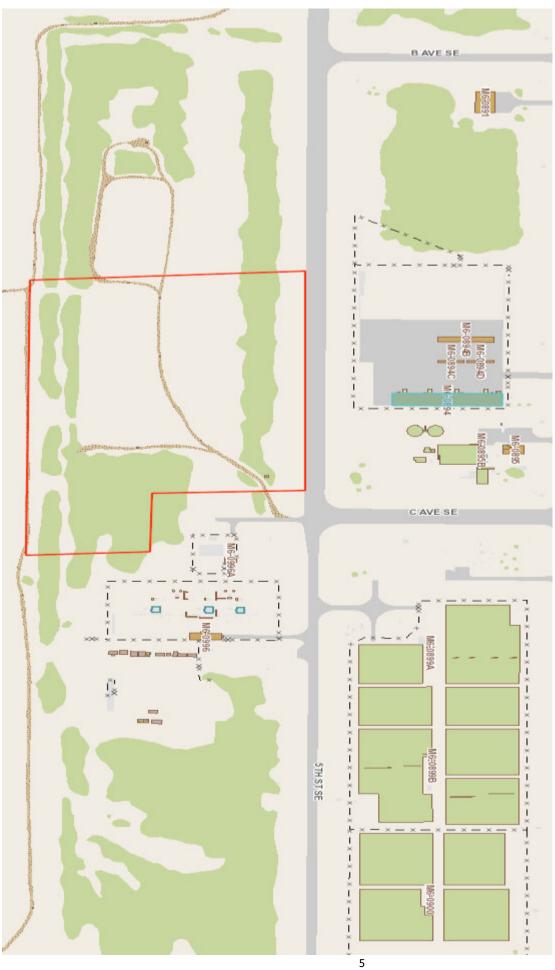
Scope of Work / Justification				
Scope of Work/Justification	This is a permit request for monitoring well (MW) and air sparge system installation to remediate groundwater at two bordering properties, the Paint and Oil Locker Southern Treatment Area [Solid Waste Management Unit (SWMU) 067] and Supply Warehouse #3 (SWMU 088) (Figures 1-1 and 1-2). MW installation will be completed to a maximum depth of 60 feet below land surface (bls) at the locations shown on the attached Monitoring Well Location and Well Layout maps. Installation of the AS system will involve trenching, infrastructure installation (trailer, temporary fencing, compressed air piping and electrical), and drilling. Trenching will be conducted to a maximum depth of 3 feet bls and drilling of AS wells will occur to a maximum depth of 60 feet bls. The trenching layout and AS well location areas are shown on the attached Air Sparging System Sampling Location and Well Layout maps. Trenches will be completed with tracer wire installed for future utility location.			
Submitter's Information				
Submitter First Name	Mark			
Submitter Last Name	Jonnet			

Submitter Email Address	Mark.Jonnet@tetratech.com			
Submitter Company Name	Tetra Tech			
Submitter Phone	412-921-8622			
Submitter Fax	412-921-4040			
	Technical Contact Information			
Technical Contact First Name	Dinh			
Technical Contact Last Name	Vo			
Technical Contact Email Address	dinh.x.vo@nasa.gov			
Technical Contact Phone	(321) 867-5964			
Technical Contact Fax	(321) 867-4446			
	NASA COTR Contact Information			
NASA COTR First Name	Dinh			
NASA COTR Last Name	Vo			
NASA COTR Email Address	dinh.x.vo@nasa.gov			
NASA COTR Phone	(321) 867-5964			
	Permit Request Info			
PermitType	Dig			
PermitStatus	Approved			
Permit Start Date	09/01/2019			
Permit End Date	08/31/2020			
Facility Info				
Facility	M6-0894			
Grid	M6			
Additional Forms and Identifying Numbers				
Secondary Location	M6-0891			
Environmental Check List Completed	No			
_	Category Codes			

1	I		
2	IV		
3	V		
Related Documents			
File Name	Description		
Excavation-Permit- Request_POL- 201908.pdf			

Reviews				
Reviewed By:	Date:	Results:	Comments:	
Locator	8/26/2019 1:55:05 PM	Agree	Within 20 feet of GN2 line is CAT 1 & V.	
Environmental	8/26/2019 1:56:03 PM	Agree	Abide by conditions provided in REC #10774 issued on 8-26-19.	
Master Planner	9/9/2019 7:29:45 AM	Agree	DPT work can be performed, Site Plan will be required for additional work	
Final	9/9/2019 12:13:15 PM	Agree	AL	
Мар				
Map associated	Map associated with this request 19280-map.png			

Attention: Map rotated 90 degrees, right side is NORTH >>>>>>



Permit Request: 19280 (Status: Approved)

	Sunshine 811 Call Ticket Number	
Ticket Number		
	Approvals	
Approved by: Jeff McDowell	Approved by: Roberto Cosme	
Approved by:	Approved by:	
Notes:		
		_
		_
		_
. 11 OCATED AREA TO BE HAND EV	DAVATED ON VI	
] LOCATED AREA TO BE HAND EXC	CAVATED ONLY!	
Locator's Signature:		
Reason for Hand Excavation:		
		_
		_
		_

Permit Request: 19280 (Status: Approved)

EXCAVATION PERMIT CATEGORIES:

If you have questions about assigned category codes contact the Excavation Permit Inspectors at Primary: **321-749-4840** Alternate: **321-529-4796**.

Note: for permits with more than one category code, the most restrictive category code applies.

For critical categories that have locations specifically defined (Categories 1, 5, 6) the affected range of the category shall be 60" beyond the defined location. Beyond the 60" range the category shall default to Category 4.

LAUNCH

For the latest launch, landing or test schedule, contact the ISC Duty Office at 321-861-5050.

Category I *

Prior to any KSC launch all excavation will cease seventy-two (72) hours prior to launch, test or landing at, around or involving the following KSC facilities:

Facilities					
Launch Control Center - LCC (K6-0900)	Old MILA Area	Communication Distribution and Switching Center - CD&SC (M6- 0138)	Operations & Checkout O&C (M6- 0355)		
LC 39 A & B (all areas and buildings inside the fence) & all 8 Repeater Stations. ¹	Press Site (all buildings, roads, parking areas in and around the area.)	Payload Facility Supporting Launch (M7-0777, & M7-0360) ²	Central Instrumentation Facility (M6-0342)		
VAB Repeater - VABR (K7-1193)	Banana River Repeater Station (M7-0531)	CCF - Converter Compressor Facility (K7-0468)	Shuttle Landing Facility -SLF (runway and all associated buildings and		
C-5 Substation (K6-1141)	Tel IV & South Repeater Station (N6-1118)	VAB (K6-0848) and VAB Utility Annex (K6-0947)	infrastructure)		

- 1 Facilities (J7-0986, J7-1736, J8-2204, K6-1193, K7-0089, K7-0422, K7-0709, M7-0531,& N6-1118).
- 2 Mission Specific Including but not limited to these facilities. (M7-0777 Launch Abort System Facility, and M7-0360 Space Station Processing Facility (SSPF)).

Excavation may resume at facilities in the table above four (4) hours after launch. Excavation will not occur at the SLF (16) until after landing.

Category II

LC-39 Active Pads – All excavation (except emergencies) will stop when the launch vehicle rolls out to the Pad. Excavation may resume following Pad safing and washdown after launch.

Category III

LC-39 Deactive Pads – Excavation will cease 2 hours before sunset on launch -1 (L-1) day or 12 hours prior to launch from Active Pad. Whichever is earlier. Excavation may resume 4 hours after launch from the Active Pad.

Category IV

Category V

Prior to digging you must call the ISC Duty Office at 321-861-5050 DAILY.

Air Force Launch Operations – Excavation and switching of critical power will cease on launch critical days (24 hours, launch count to include launch day) at the following KSC facilities and utilities:

Facilities						
Kennedy Parkway, NASA Parkway & Saturn Causeway utility corridors	Tel IV & South Repeater Station (N6- 1118)	Banana River Repeater Station (M7-0531)	' ()rsing Substation serving			
All Camera, Radar & Weather Sites	Shuttle Landing Facility	KARS Park	Pump Station 7 (K8-1740)	Old MILA Area		
Press Site (all buildings, roads, parking areas in and around the area)		Complex 41 (all facilities and areas inside the fence)	Area east from the Converter Compressor Facility .CCF (K7-0468) to Pad 39A			

Category VI

Prior to digging you must call the ISC Duty Office at 321-861-5050 DAILY.

Air Force Non-Launch Operations – Excavation and switching of critical power will cease on non-launch critical days (program specific test days) at the following KSC facilities and utilities:

Facilities					
Kennedy Parkway, NASA Parkway & Saturn Causeway utility corridors	Tel IV & South Repeater Station (N6- 1118)	Banana River Repeater Station (M7-0531)	Utility Corridors East of Orsino Substation serving CCAFS	Pump Station 7 (K8-1740)	
Space X ViaSat Antenna, Tracking Station (J6-0553)	All Camera, Radar & Weather Sites	Complex 41 (all facilities and areas inside the fence)	Area south from LC-39B along Phillips Parkway		
Press Site (all buildings, roads, parking areas in and around the area) Area east from the Converter Compressor Facility -CCF (K7-0468) to Pad 39A					

Category VII

For all SLF operations (current and future), excavation will cease on launch and landing critical days (L-1, launch count to include launch day, program specific test days, and landing -1 day). Excavation may proceed in all areas up to 2 hours prior to sunset on landing -1 day, or 12 hours prior to landing, whichever is earlier. Excavation may proceed at all facilities, except for the SLF, 1 hour after a successful landing. Excavation will stop at, around, and/or involving the SLF and involved facilities, at the start of Launch Countdown. Excavation may proceed in this area after Landing, AND with approval from SLF Operations at 321-867-2100.

AVOID VERBAL ORDERS

DATE: November 7, 2019

APPROVAL VALID UNTIL: November 7, 2021

TO:

Dinh Vo, SIE20

TITLE:

Air Sparging Treatment System and Monitoring Wells at Paint and Oil Locker Southern Treatment Area

SITE PLAN:

19-0078 (M6-10026138)

SUBJECT:

Site Plan Approval

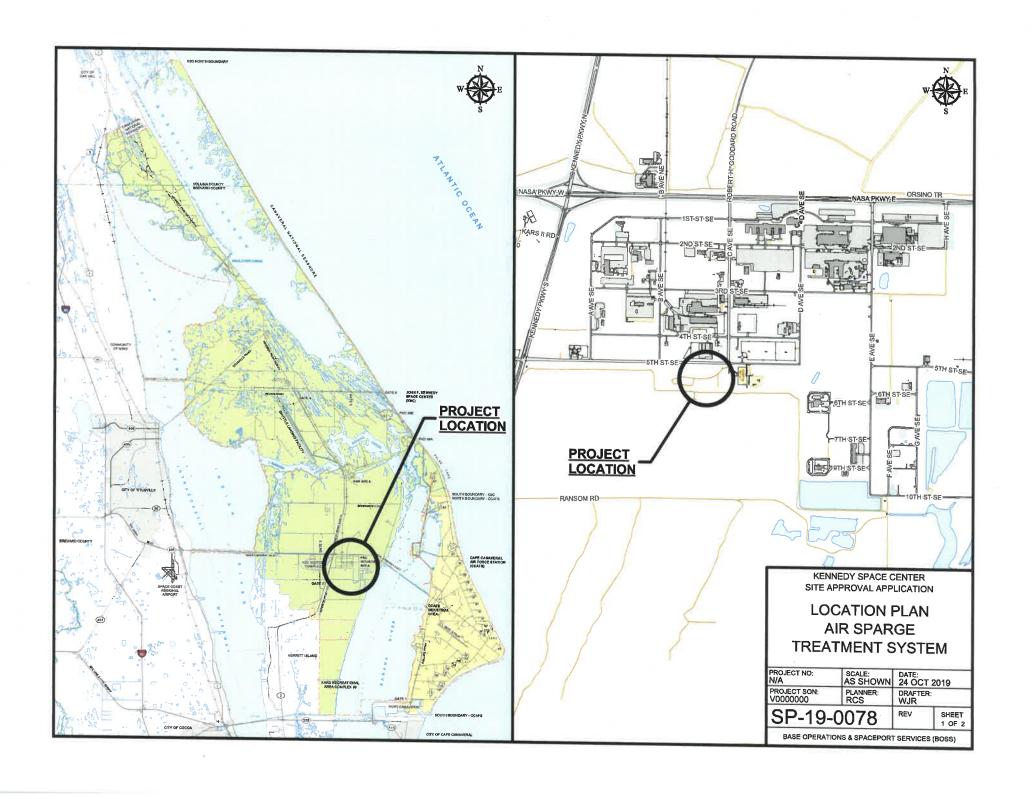
This letter indicates that the proposed site plan has met with the approval of the Master Planning Office. As an approved site plan, it will remain valid for a period of TWO (2) years. If the project has not been initiated within this twoyear period, this approval will be rescinded and you must re-submit your plan for review. Within this approval package, you will find a copy of the maps, site plan, and comment log. The comment log contains comments and concerns regarding this site plan. Please note that your final plan must comply with all conditions and restrictions contained within the approval package. This letter signifies approval by the Master Planning Office only and does not entitle you to funds of facilities that may be necessary to fulfill this project. It is your responsibility to obtain the necessary funds and materials, as well as a Utility Locate/Excavation Permit to complete this project.

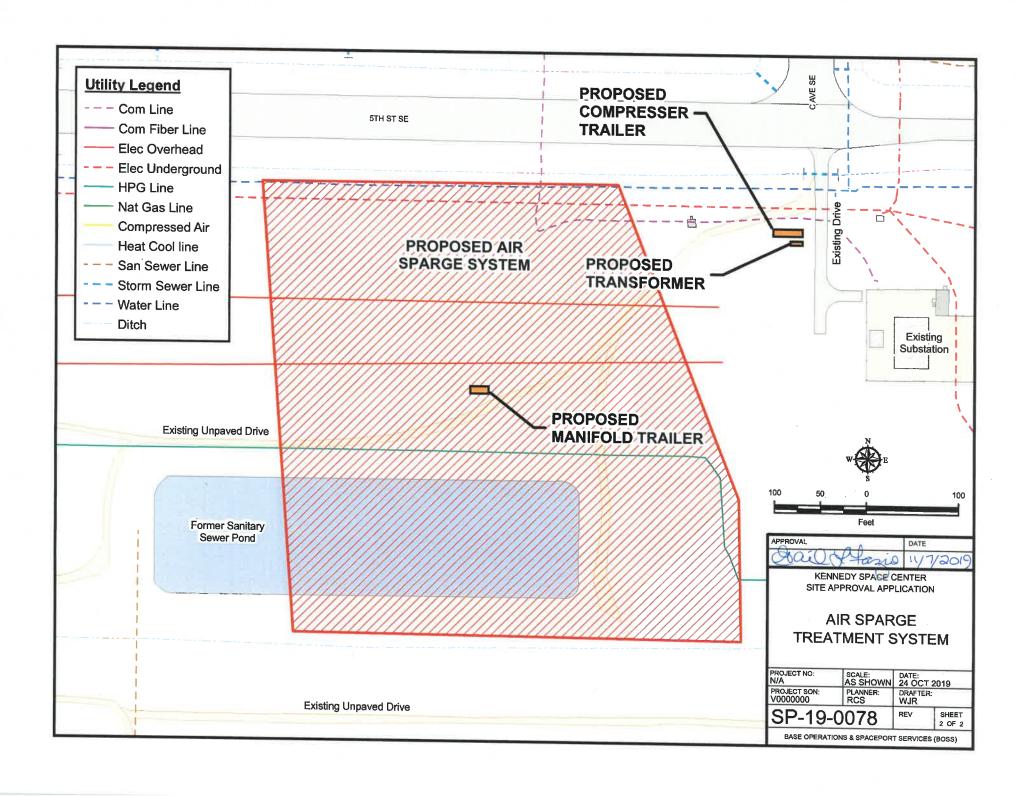
Conditions/Restrictions must be met:

- Beware of GN2 pipeline crossing the area. Obtain an Excavation Permit so there will be a utility locator to identify entire pipeline crossing route. Do not place wells within 15 feet of the pipeline centerline.
- Please note that due to the condition of the unpaved road leading to the Manifold Trailer, it is unlikely that the fire department will be able to access it in the event of a fire.
- As this area is adjacent to a prescribed burn unit, it is recommended there be a minimum 50' maintained defensible buffer if there is a concern for equipment of facilities being affected by fire.

ORGANIZATION: SI-C2

EXT: 1-4610





	REQUEST FOR SI	TE PLA	AN REVIE	EW		
Site Plan #: 19-0077	Grid - WON: M7 - 10026096	Date Rele	eased: 10/25/2	019	Return Due	Date: 11/7/2019
Title: Air Sparging Treatment Syst	em and Monitoring Wells at Hyp	ergol Mair	ntenance Facili	ity North		
Summary of Project: Site Plan req The purpose of this system is to re trailer, which will be located onsite monitoring wells will be installed to from the new equipment trailer, to piping.	emediate impacted groundwater e. 213 air sparge wells will be ins o monitor groundwater and supp	at the site talled as p ort the tre	 The system exact of the treat atment system 	equipmer ment sys . Subsurf	nt will be hou stem. Twenty face conveys	sed in an enclosed y-one (21) new ance piping will run
Justification: Delay in the site plan the air sparge system.	will delay the installation of mor	nitoring an	d air sparge w	ells at the	e site. Thus,	delaying startup of
Site Location: M7-1011	======================================	Project T	ype: Well		Project #:	
Use Designation:		Finding o	f Consistent wi	ith Gener	al Plan: Yes	
Real Property:		-				
User:	Cost:	Fund:			FY:	
Should the contract	or observe any soil anomaly, KEM	CON Envir	onmental is to b	e contacte	ed (321-867-8	430).
Released By: Robert Seeback 32	1.867.0846	To: (See	attached revie	wer list)		
Return Complete Form To:		For Inforr	nation Contact	:		
BOSS Master Planning KSC-BOSS-MasterPlanning@mail.nasa.gov Rya			Ryan O'meara 321.861.7719			
Response: You are requested to recomments should be submitted or sheets. Indicate your response in signature indicates you have reviel location. This does not constitute to	n this sheet and returned to the I the Review Action column below ewed the site plan with respect to	BOSS Mas by enteri by your fund	ster Planning C ng an 'X' in the ctional respons	office. Yo appropribility and	u do not nee iate space. \ d concur with	ed to return the other Your concurrence In the proposed
			T			
Signature and Printed Name	Office/Functional Responsibility and PHONE	Date	Concur No Comments		ır Subject mments	Non-concur (See Comments)

Comments (Continue on Separate Sheet if Necessary):

Grid - WON: M7 - 10026096 Site Plan #: 19-0077 **Date Released:** 10/25/2019 Return Due Date: 11/7/2019

Title: Air Sparging Treatment System and Monitoring Wells at Hypergol Maintenance Facility North

Return Complete Form To: BOSS Master Planning, KSC-BOSS-MasterPlanning@mail.nasa.gov

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2	Jonathan Baker UBB00 Company: NASA Responsibility: PROGRAM ANALYST Phone: 321.867.8095 Fax: Email: jonathan.d.baker@nasa.gov
4	James Bjornbak ITD10 Company: NASA Responsibility: Phone: 321.867.6905 Fax: (321)867-9693 Email: james.p.bjornbak@nasa.gov
6	John Carson BOSS-4160 Company: PAE - SGT Partners LCC Responsibility: Utilities Systems Maintenance Engineer Phone: 321-861-4727 Fax: Email: john.r.carson@nasa.gov
8	James Curtis CI-4300 Company: Chenega Infinity, LLC Responsibility: Resource Protection Phone: 321.861.0765 Fax: 867-4785 Email: james.j.curtis@nasa.gov
10	Donald Dankert SIE30 Company: NASA Responsibility: Environmental Phone: 321.861.1196 Fax: Email: donald.j.dankert@nasa.gov
12	Chuck Davis NASA Propellents Company: NASA Responsibility: NASA Propellents/GN2 Specialist Phone: 867-4748 Fax: 867-7369 Email: Chuck.Davis@nasa.gov
14	Kyle Dixon NEL50 Company: NASA Responsibility: Phone: 321.861.6956 Fax: 867-1425 Email: kyle.l.dixon@nasa.gov
16	George Dutt ITD00 Company: NASA Responsibility: Communications Services Phone: 321.867.3156 Fax: 867-3756 Email: george.l.dutt@nasa.gov
18	Gail Fazio SIC20 Company: NASA Responsibility: Phone: 321.861.4610 Fax: Email: gail.l.fazio@nasa.gov
20	Derick Fowler BOSS-3510 Company: PAE - SGT Partners LCC Responsibility: Road Maintenance Phone: 321.861.6297 Fax: 861-6114 Email: derick.c.fowler@nasa.gov
22	Steven Gilmore ADA00 Company: NASA Responsibility: KSC Planning and Development Phone: 321.867.8207 Fax: Email: steven.gilmore@nasa.gov
	4 6 8 10 12 14 16

Thursday, October 24, 2019

23	Donald Gisi Company: Range Generation Next, LLC Responsibility: Phone: Fax: Email: donald.gisi.ctr@us.af.mil	24	John Graves SII20 Company: NASA Responsibility: AST, MISSION SUPPORT REQMNTS & DEV Phone: 321.867.5124 Fax: (321)867-7282 Email: john.a.graves@nasa.gov
25	Richard Griffin SIC20 Company: NASA Responsibility: REALTY SPECIALIST Phone: 321.861.5025 Fax: Email: richard.t.griffin@nasa.gov	26	Nathan Grossmann CI-4200 Company: Chenega Infinity, LLC Responsibility: Fire Inspector Phone: 321.861.2710 Fax: Email: nathan.l.grossmann@nasa.gov
27	Eric Haberle SII10 Company: NASA Responsibility: Spaceport Integration Phone: 321.861.6380 Fax: Email: eric.haberle@nasa.gov	28	Gregory Harland PXC00 Company: NASA Responsibility: Phone: 321.861.7401 Fax: 321-867-2692 Email: gregory.b.harland@nasa.gov
29	Lauren Harley Company: ARES Responsibility: Line of Sight Impact Analyst Phone: 853-2623 Fax: 494-9707 Email: lauren.Harley.ctr@us.af.mil	30	Anthony Harris SAE20 Company: NASA Responsibility: SUPV AST, FACILITY SYSTEMS SAFETY Phone: 321.867.4998 Fax: 321-867-5694 Email: anthony.s.harris@nasa.gov
31	Shawn Harris Cape Canaveral National Seashore Company: NPS Responsibility: Phone: 321-267-1110 Fax: Email: shawn_harris@nps.gov	32	Dave Irwin BOSS-4520 Company: PAE - SGT Partners LCC Responsibility: Survey/Locators Phone: 321-861-7945 Fax: Email: david.j.irwin@nasa.gov
33	Justin Junod NET80 Company: NASA Responsibility: Phone: 321.867.4749 Fax: 867-7037 Email: justin.d.junod@nasa.gov	34	Jennifer Krouchick ADA00 Company: NASA Responsibility: Community Planner Phone: Fax: Email: jennifer.l.krouchick@nasa.gov
35	Michael Landry BOSS-4170 Company: PAE - SGT Partners LCC Responsibility: Phone: 321.861.5951 Fax: Email: michael.f.landry@nasa.gov	36	Tim Leech AF 45 CES/CENPL Company: AF 45SW Responsibility: CCAFS Community Planner Phone: 853-0963/ 494-9246 Fax: 853-6255 Email: Timothy.Leech@us.af.mil
37	Alan Leite NEL10 Company: NASA Responsibility: Electromagnetic Lab Phone: 321.867.2974 Fax: 867-9424 Email: alan.s.leite@nasa.gov	38	Eric Levison CI-4200 Company: Chenega Infinity, LLC Responsibility: Fire Services Phone: 321.867.2126 Fax: 861-0798 Email: eric.s.levison@nasa.gov
39	Laura Lopetz BOSS-4540 Company: PAE - SGT Partners LCC Responsibility: Real Property Phone: 321.867.0851 Fax: 867-1175 Email: laura.a.lopetz@nasa.gov	40	John Lorch SIC20 Company: NASA Responsibility: SUPV AST, EXPERIMENTAL FAC DEV Phone: 321.861.3093 Fax: (321)867-7529 Email: john.r.lorch@nasa.gov
41	David Mccormick 4530 Company: NASA Responsibility: NEN LCS Phone: 301-377-2711 Fax: Email: david.r.mccormick@nasa.gov	42	Brian Mcgraw SIP00 Company: NASA Responsibility: Fire Protection Engineer / AHJ Phone: 321-867-6695 Fax: Email: brian.m.mcgraw-1@nasa.gov
43	Michael Mills CI-4300 Company: Chenega Infinity, LLC Responsibility: Security Phone: 321.861.8931 Fax: Email: michael.g.mills@nasa.gov	44	Center Operations NASA Facilities Branch, Center Operations Company: NASA Responsibility: Master Planning, Space Allocation, Real Property Phone: Fax: Email: KSC-NASA-Master-Plan@mail.nasa.gov
45	Tom Penn Merritt Island NWR Company: FWS Responsibility: Deputy Project Leader Phone: 321-861-2288 Fax: Email: tom_penn@fws.gov	46	Renee Ponik SIC2 Company: NASA Responsibility: LEAD AST, EXPERIMENTAL FAC TECH Phone: (321)867-8498 Fax: Email: renee.ponik-1@nasa.gov
47	Linda Rhode SIP00 Company: NASA Responsibility: Security Specialist Phone: 321.867.2455 Fax: Email: linda.a.rhode@nasa.gov	48	Craig Rosczypala SIC30 Company: NASA Responsibility: Propellants and Life Supprt Phone: 321-867-3313 Fax: 321-867-8495 Email: craig.l.rosczypala@nasa.gov

Thursday, October 24, 2019

			,
49	Merissa Rudkin CSR 3410 Company: AF Responsibility: Instrumentation Systems Analysis Phone: 853-2639 Fax: Email: merissa.rudkin.ctr@us.af.mil	50	Robert Russo SAE30 Company: NASA Responsibility: LEAD SAFETY&OCCUPATIONAL HEALTH SPEC Phone: 321.861.0499 Fax: Email: robert.russo-1@nasa.gov
51	Jeanne Ryba SIE30 Company: NASA Responsibility: Phone: 321.867.7824 Fax: Email: jeanne.m.ryba@nasa.gov	52	Robert Seeback BOSS-4540 Company: PAE - SGT Partners LCC Responsibility: Phone: 321.867.0846 Fax: Email: robert.c.seeback@nasa.gov
53	Lisa Singleton PXO00 Company: NASA Responsibility: Phone: 321.867.1213 Fax: 321.867.3395 Email: lisa.m.singleton@nasa.gov	54	Peter Solenski Company: KSC 45th SW (AF) Responsibility: Line of Sight Impact Analyst Phone: Fax: Email: peter.solenski.ctr@us.af.mil
55	David Thorpe ADA00 Company: NASA Responsibility: Phone: 321.867.2530 Fax: Email: david.b.thorpe@nasa.gov	56	Ron Traylor BOSS Environmental/BOSS-1220 Company: PAE - SGT Partners LCC Responsibility: Environmental Engineer II Phone: 867-3300 Fax: 867-7737 Email: KSC-ISC-EnvironmentalShared@mail.nasa.gov
57	Eugene Walker GGAB0 Company: NASA Responsibility: Phone: 321.867.2714 Fax: 867-2704 Email: eugene.e.walker@nasa.gov	58	Glenn Walters BOSS-4510 Company: PAE - SGT Partners LCC Responsibility: BOSS Site Planning Lead Phone: 321.867.0847 Fax: Email: glenn.a.walters@nasa.gov
59	Christopher Willis SCJ-980 Company: SC Jones Services Responsibility: KSC Grounds Manager Phone: 321.861.6290 Fax: 867-8469 Email: christopher.g.willis@nasa.gov		

SITE PLAN COMMENT LOG		
WON #: 10026096	Project Title: Air Sparging Treatment System and Monitoring Wells at Hypergol Maintenance Facility North	
Site Plan #: 19-0077	Planner: Seeback, Robert 321.867.0846	
COMMENTS		

#	COMMENTS RECEIVED DATE	CONTACT / ORG / PHONE	SITE PLAN COMMENTS / PLANNER ACTIONS
1		Ryan O'meara SIE20 Company: NASA Phone: 321.861.7719 Fax: Email: ryan.p.omeara@nasa.gov Responsibility:	Reviewer Comments: No response received. As stated in the review requests, concurrence without comment is assumed.
2		Jonathan Baker UBB00 Company: NASA Phone: 321.867.8095 Fax: Email: jonathan.d.baker@nasa.gov Responsibility: PROGRAM ANALYST	Reviewer Comments: No response received. As stated in the review requests, concurrence without comment is assumed.
3		Jerrold Bernfeld KISSIV-PX Company: APACHE-LOGICAL JV Phone: 321.867.2880 Fax: Email: jerrold.s.bernfeld@nasa.gov Responsibility: Program/Project Coordinator III	Reviewer Comments: No response received. As stated in the review requests, concurrence without comment is assumed.
4	10/25/2019	James Bjornbak ITD10 Company: NASA Phone: 321.867.6905 Fax: (321)867-9693 Email: james.p.bjornbak@nasa.gov Responsibility: Functions: Communications	Reviewer Comments: Concur. Concur
5		Keith Britton NET70 Company: NASA Phone: 321.867.1955 Fax: 867-5694 Email: keith.j.britton@nasa.gov Responsibility: TA-B3C	Reviewer Comments: No response received. As stated in the review requests, concurrence without comment is assumed.
6	11/04/2019	John Carson BOSS-4160 Company: PAE - SGT Partners LCC Phone: 321-861-4727 Fax: Email: john.r.carson@nasa.gov Responsibility: Utilities Systems Maintenance Engineer	Reviewer Comments: Concur. Concur, no comment.
7	10/28/2019	John Creech SIB20 Company: NASA Phone: 321.867.4395 Fax: 867-1425 Email: john.n.creech@nasa.gov Responsibility:	Reviewer Comments: Concur. SI-B2 concurs with no comments.
8		James Curtis CI-4300 Company: Chenega Infinity, LLC Phone: 321.861.0765 Fax: 867-4785 Email: james.j.curtis@nasa.gov Responsibility: Resource Protection	Reviewer Comments: No response received. As stated in the review requests, concurrence without comment is assumed.
9		Douglas Czerwinski SIC10 Company: NASA Phone: 321.867.4542 Fax: 867-1339 Email: douglas.a.czerwinski@nasa.gov Responsibility: O&M Fire & Roads	Reviewer Comments: No response received. As stated in the review requests, concurrence without comment is assumed.

WON #: 10026096	Project Title: Air Sparging Treatment System and Monitoring Wells at Hypergol Maintenance Facility North
1	

Site Plan #: 19-0077 Planner: Seeback, Robert 321.867.0846

001417170					
#	COMMENTS RECEIVED DATE	CONTACT / ORG / PHONE	SITE PLAN COMMENTS / PLANNER ACTIONS		
10		Donald Dankert SIE30 Company: NASA Phone: 321.861.1196 Fax: Email: donald.j.dankert@nasa.gov Responsibility: Environmental	Reviewer Comments: No response received. As stated in the review requests, concurrence without comment is assumed.		
11		Natasha Darre SIE3 Company: NASA Phone: Fax: Email: natasha.c.darre@nasa.gov Responsibility: KSC Historic Preservation Officer	Reviewer Comments: No response received. As stated in the review requests, concurrence without comment is assumed.		
12	10/28/2019	Chuck Davis NASA Propellents Company: NASA Phone: 867-4748 Fax: 867-7369 Email: Chuck.Davis@nasa.gov Responsibility: NASA Propellents/GN2 Specialist Functions: Fuels/Propellants/Life Support	Reviewer Comments: Concur (Subject to Comments). Approve with comment. Beware of GN2 pipeline crossing the area. Get utility locator to identify entire pipeline crossing route. Do not place wells within 15 feet of the pipeline centerline. Chuck		
13		Mike Denyer BOSS-4150 Company: PAE - SGT Partners LCC Phone: 867-1289 Fax: 867-1497 Email: Michael.L.Denyer@nasa.gov Responsibility: HVAC SME O&M	Reviewer Comments: No response received. As stated in the review requests, concurrence without comment is assumed.		
14	10/25/2019	Kyle Dixon NEL50 Company: NASA Phone: 321.861.6956 Fax: 867-1425 Email: kyle.l.dixon@nasa.gov Responsibility:	Reviewer Comments: Concur. Concur		
15		Jeffry Dudley SIP00 Company: NASA Phone: 321.867.5530 Fax: 321-867-8102 Email: jeffry.t.dudley@nasa.gov Responsibility: Fire Protection	Reviewer Comments: No response received. As stated in the review requests, concurrence without comment is assumed.		
16		George Dutt ITD00 Company: NASA Phone: 321.867.3156 Fax: 867-3756 Email: george.l.dutt@nasa.gov Responsibility: Communications Services Functions: Communications	Reviewer Comments: No response received. As stated in the review requests, concurrence without comment is assumed.		
17	11/04/2019	KEMCON Environmental KEM Company: Integrated Mission Support Service Phone: 867-8430 Fax: Email: KSC-KEMCON-ENV@mail.nasa.gov Responsibility: KSC Environmental Functions: Environmental	Reviewer Comments: Concur. Concur, no comment.		
18		Gail Fazio SIC20 Company: NASA Phone: 321.861.4610 Fax: Email: gail.l.fazio@nasa.gov	Reviewer Comments: No response received. As stated in the review requests, concurrence without comment is assumed.		

WON #: 10026096

Site Plan #: 19-0077 | Planner: Seeback, Robert 321.867.0846

#	COMMENTS RECEIVED DATE	CONTACT / ORG / PHONE	SITE PLAN COMMENTS / PLANNER ACTIONS
19	10/25/2019	Ellen Feeney BOSS-4160 Company: PAE - SGT Partners LCC Phone: 321.867.1542 Fax: 867-1339 Email: ellen.s.feeney@nasa.gov Responsibility: Water/Wastewater/Plumbing Functions: Water, Waste Water	Reviewer Comments: Concur. No comment.
20		Derick Fowler BOSS-3510 Company: PAE - SGT Partners LCC Phone: 321.861.6297 Fax: 861-6114 Email: derick.c.fowler@nasa.gov Responsibility: Road Maintenance Functions: Roads and Grounds	Reviewer Comments: No response received. As stated in the review requests, concurrence without comment is assumed.
21	10/25/2019	Gregory Gaddis SII10 Company: NASA Phone: 321.861.9556 Fax: 321-867-7648 Email: gregory.gaddis-1@nasa.gov Responsibility: Spaceport Integration	Reviewer Comments: Concur. No known spaceport integration issues; concur.
22		Steven Gilmore ADA00 Company: NASA Phone: 321.867.8207 Fax: Email: steven.gilmore@nasa.gov Responsibility: KSC Planning and Development	Reviewer Comments: No response received. As stated in the review requests, concurrence without comment is assumed.
23	10/25/2019	Donald Gisi Company: Range Generation Next, LLC Phone: Fax: Email: donald.gisi.ctr@us.af.mil Responsibility:	Reviewer Comments: Concur. RGNext does not have an issue and concurs with Site Plan 19-0077.
24	10/30/2019	John Graves SII20 Company: NASA Phone: 321.867.5124 Fax: (321)867-7282 Email: john.a.graves@nasa.gov Responsibility: AST, MISSION SUPPORT REQMNTS & DEV Programs: SLF	Reviewer Comments: Concur. Concur, no impacts
25		Richard Griffin SIC20 Company: NASA Phone: 321.861.5025 Fax: Email: richard.t.griffin@nasa.gov Responsibility: REALTY SPECIALIST Functions: Real Property	Reviewer Comments: No response received. As stated in the review requests, concurrence without comment is assumed.
26		Nathan Grossmann CI-4200 Company: Chenega Infinity, LLC Phone: 321.861.2710 Fax: Email: nathan.l.grossmann@nasa.gov Responsibility: Fire Inspector	Reviewer Comments: No response received. As stated in the review requests, concurrence without comment is assumed.

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27		Eric Haberle SII10 Company: NASA Phone: 321.861.6380 Fax: Email: eric.haberle@nasa.gov Responsibility: Spaceport Integration Programs: SPACE X	Reviewer Comments: No response received. As stated in the review requests, concurrence without comment is assumed.
28		Gregory Harland PXC00 Company: NASA Phone: 321.861.7401 Fax: 321-867-2692 Email: gregory.b.harland@nasa.gov Responsibility:	Reviewer Comments: No response received. As stated in the review requests, concurrence without comment is assumed.
29	11/04/2019	Lauren Harley Company: ARES Phone: 853-2623 Fax: 494-9707 Email: lauren.Harley.ctr@us.af.mil Responsibility: Line of Sight Impact Analyst	Reviewer Comments: Concur. Concur
30		Anthony Harris SAE20 Company: NASA Phone: 321.867.4998 Fax: 321-867-5694 Email: anthony.s.harris@nasa.gov Responsibility: SUPV AST, FACILITY SYSTEMS SAFETY	Reviewer Comments: No response received. As stated in the review requests, concurrence without comment is assumed.
31		Shawn Harris Cape Canaveral National Seashore Company: NPS Phone: 321-267-1110 Fax: Email: shawn_harris@nps.gov Responsibility:	Reviewer Comments: No response received. As stated in the review requests, concurrence without comment is assumed.
32		Dave Irwin BOSS-4520 Company: PAE - SGT Partners LCC Phone: 321-861-7945 Fax: Email: david.j.irwin@nasa.gov Responsibility: Survey/Locators	Reviewer Comments: No response received. As stated in the review requests, concurrence without comment is assumed.
33		Justin Junod NET80 Company: NASA Phone: 321.867.4749 Fax: 867-7037 Email: justin.d.junod@nasa.gov Responsibility: Programs: NASA Exchange	Reviewer Comments: No response received. As stated in the review requests, concurrence without comment is assumed.
34		Jennifer Krouchick ADA00 Company: NASA Phone: Fax: Email: jennifer.l.krouchick@nasa.gov Responsibility: Community Planner	Reviewer Comments: No response received. As stated in the review requests, concurrence without comment is assumed.
35		Michael Landry BOSS-4170 Company: PAE - SGT Partners LCC Phone: 321.861.5951 Fax: Email: michael.f.landry@nasa.gov	Reviewer Comments: No response received. As stated in the review requests, concurrence without comment is assumed.

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36		Tim Leech AF 45 CES/CENPL Company: AF 45SW Phone: 853-0963/ 494-9246 Fax: 853-6255 Email: Timothy.Leech@us.af.mil Responsibility: CCAFS Community Planner Functions: Airfield, Airfield Waiver, Planning Programs: Skid Strip	Reviewer Comments: No response received. As stated in the review requests, concurrence without comment is assumed.
37		Alan Leite NEL10 Company: NASA Phone: 321.867.2974 Fax: 867-9424 Email: alan.s.leite@nasa.gov Responsibility: Electromagnetic Lab	Reviewer Comments: No response received. As stated in the review requests, concurrence without comment is assumed.
38	11/04/2019	Eric Levison CI-4200 Company: Chenega Infinity, LLC Phone: 321.867.2126 Fax: 861-0798 Email: eric.s.levison@nasa.gov Responsibility: Fire Services Functions: Fire/Protective Systems	Reviewer Comments: Concur. Concur.
39	10/25/2019	Laura Lopetz BOSS-4540 Company: PAE - SGT Partners LCC Phone: 321.867.0851 Fax: 867-1175 Email: laura.a.lopetz@nasa.gov Responsibility: Real Property Functions: Real Property	Reviewer Comments: Concur. Concur.
40		John Lorch SIC20 Company: NASA Phone: 321.861.3093 Fax: (321)867-7529 Email: john.r.lorch@nasa.gov Responsibility: SUPV AST, EXPERIMENTAL FAC DEV	Reviewer Comments: No response received. As stated in the review requests, concurrence without comment is assumed.
41	10/25/2019	David Mccormick 4530 Company: NASA Phone: 301-377-2711 Fax: Email: david.r.mccormick@nasa.gov Responsibility: NEN LCS	Reviewer Comments: Concur. No impact or comment.
42	11/01/2019	Brian Mcgraw SIP00 Company: NASA Phone: 321-867-6695 Fax: Email: brian.m.mcgraw-1@nasa.gov Responsibility: Fire Protection Engineer / AHJ	Reviewer Comments: Concur. No comments.
43	10/28/2019	Michael Mills CI-4300 Company: Chenega Infinity, LLC Phone: 321.861.8931 Fax: Email: michael.g.mills@nasa.gov Responsibility: Security	Reviewer Comments: Concur. Concur with no comments

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14		Center Operations NASA Facilities Branch, Center Operations Company: NASA Phone: Fax: Email: KSC-NASA-Master- Plan@mail.nasa.gov Responsibility: Master Planning, Space Allocation, Real Property	Reviewer Comments: No response received. As stated in the review requests, concurrence without comment is assumed.
15	10/28/2019	Tom Penn Merritt Island NWR Company: FWS Phone: 321-861-2288 Fax: Email: tom_penn@fws.gov Responsibility: Deputy Project Leader Programs: U.S. Fish and Wildlife Services	Reviewer Comments: Concur. usfws concurs
46		Renee Ponik SIC2 Company: NASA Phone: (321)867-8498 Fax: Email: renee.ponik-1@nasa.gov Responsibility: LEAD AST, EXPERIMENTAL FAC TECH Functions: Real Property	Reviewer Comments: No response received. As stated in the review requests, concurrence without comment is assumed.
47	11/01/2019	Linda Rhode SIP00 Company: NASA Phone: 321.867.2455 Fax: Email: linda.a.rhode@nasa.gov Responsibility: Security Specialist	Reviewer Comments: Concur. Concur, no comment
48		Craig Rosczypala SIC30 Company: NASA Phone: 321-867-3313 Fax: 321-867-8495 Email: craig.l.rosczypala@nasa.gov Responsibility: Propellants and Life Supprt Functions: Fuels/Propellants/Life Support Programs: Fuel Storage Areas (FSA)	Reviewer Comments: No response received. As stated in the review requests, concurrence without comment is assumed.
19		Merissa Rudkin CSR 3410 Company: AF Phone: 853-2639 Fax: Email: merissa.rudkin.ctr@us.af.mil Responsibility: Instrumentation Systems Analysis	Reviewer Comments: No response received. As stated in the review requests, concurrence without comment is assumed.
50	10/25/2019	Robert Russo SAE30 Company: NASA Phone: 321.861.0499 Fax: Email: robert.russo-1@nasa.gov Responsibility: LEAD SAFETY&OCCUPATIONAL HEALTH SPEC	Reviewer Comments: Concur. concur
51	10/30/2019	Jeanne Ryba SIE30 Company: NASA Phone: 321.867.7824 Fax: Email: jeanne.m.ryba@nasa.gov	Reviewer Comments: Concur. Cultural resources concurs.

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52		Robert Seeback BOSS-4540 Company: PAE - SGT Partners LCC Phone: 321.867.0846 Fax: Email: robert.c.seeback@nasa.gov Responsibility:	Reviewer Comments: No response received. As stated in the review requests, concurrence without comment is assumed.
53	10/28/2019	Lisa Singleton PXS00 Company: NASA Phone: 321.867.1213 Fax: 321.867.3395 Email: lisa.m.singleton@nasa.gov Responsibility:	Reviewer Comments: Concur. PX-S has reviewed with no comment.
54		Peter Solenski Company: KSC 45th SW (AF) Phone: Fax: Email: peter.solenski.ctr@us.af.mil Responsibility: Line of Sight Impact Analyst Functions: Line of Sight (LOS)	Reviewer Comments: No response received. As stated in the review requests, concurrence without comment is assumed.
55	10/25/2019	David Thorpe ADA00 Company: NASA Phone: 321.867.2530 Fax: Email: david.b.thorpe@nasa.gov Responsibility:	Reviewer Comments: Concur. Concur
56		Ron Traylor BOSS Environmental/BOSS-1220 Company: PAE - SGT Partners LCC Phone: 867-3300 Fax: 867-7737 Email: KSC-ISC- EnvironmentalShared@mail.nasa.gov Responsibility: Environmental Engineer II	Reviewer Comments: No response received. As stated in the review requests, concurrence without comment is assumed.
57		Eugene Walker GGAB0 Company: NASA Phone: 321.867.2714 Fax: 867-2704 Email: eugene.e.walker@nasa.gov Responsibility:	Reviewer Comments: No response received. As stated in the review requests, concurrence without comment is assumed.
58		Glenn Walters BOSS-4510 Company: PAE - SGT Partners LCC Phone: 321.867.0847 Fax: Email: glenn.a.walters@nasa.gov Responsibility: BOSS Site Planning Lead	Reviewer Comments: No response received. As stated in the review requests, concurrence without comment is assumed.
59		Christopher Willis SCJ-980 Company: SC Jones Services Phone: 321.861.6290 Fax: 867-8469 Email: christopher.g.willis@nasa.gov Responsibility: KSC Grounds Manager Functions: Roads and Grounds	Reviewer Comments: No response received. As stated in the review requests, concurrence without comment is assumed.