Response Action Plan

Industrial Park: Parcel A
505 Airport Road Northeast
Pine City, Minnesota 55063

Carlson McCain Project #7687-00

Prepared for:

City of Pine City
315 Main Street South
Pine City, Minnesota 55063

July 15, 2019

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1.0 EXECUTIVE SUMMARY

On behalf of Pine City, Carlson McCain, Inc. (Carlson McCain) has prepared this Response Action Plan (RAP) for the Industrial Park: Parcel A, located at 505 Airport Road Northeast, in Pine City, Pine County, Minnesota (the "Property"). The Property, located in a historically industrial area, has been used as a snowmobile track, a rifle range, and housed aircraft hangars and a fueling tank, between the years 1968 and 1999. Prior to that it consisted of a farmstead and fields.

Plans for the Property include a complete redevelopment that could result in future industrial land use. In order to help facilitate the investigation and cleanup process, Pine City has entered the Property into the Minnesota Pollution Control Agency (MPCA) VIC Program. This document presents the proposed approach to implementing a RAP to redevelop the Property.

Several areas located within the former rifle range were found to contain elevated lead concentrations. These areas require remediation to meet current land use criteria for direct contact. It is expected that this soil will be managed on-site during redevelopment.

Limited DRO, PAHs, and metals impacts were identified from the composite samples taken from the two soil piles. Soil Stockpile One will be field-screened during removal for re-use, and confirmation sampling will ensure no contamination is present after the stockpile has been removed.

Several volatile organic compounds (VOCs) were detected in soil vapor samples near the former aircraft hangar footprints. Another round of vapor sampling is required to determine if sub-slab soil vapor mitigation would be necessary beneath any proposed structure containing living or working spaces.

2.0 INTRODUCTION

On behalf of Pine City, Carlson McCain has prepared this RAP for Industrial Park: Parcel A, located at 505 Airport Road Northeast, Pine City, Pine County, Minnesota (the "Property"). Plans for the Property include a complete redevelopment that could result in future industrial land-use. In order to help facilitate the investigation and cleanup process, Pine City has entered the Property into the Minnesota Pollution Control Agency (MPCA) VIC Program. This document presents the proposed approach to implementing a RAP to redevelop the Property.

2.1 Site Description

The Property is approximately 7.2 acres in size. The Property is currently undeveloped and vacant. It is located in the northwest quarter of the northwest quarter of Section 27, Township 39 North, Range 21 West on the United States Geological Survey (USGS) Pine City 7.5-minute topographic quadrangle. The Site location is depicted on Figure 1.

2.2 Background

The Property consisted of a farmstead and fields from at least 1939 until 1962 when it was purchased by Pine City, along with the site located adjacent to the northern boundary, for the construction of the wastewater treatment ponds that are currently located just north of the Property. The Property was used as snowmobile track, a rifle range, and housed aircraft hangars and a fueling tank between the years 1968 and 1999. A Phase I ESA completed by Carlson McCain (dated February 14, 2019) identified several RECs on the Property. The identified RECs include:

- The former rifle range located on the Property is a REC due to the remaining lead contamination in the subsurface soil. A Phase II ESA completed in 2002 by Short Elliot Hendrickson (SEH), identified several locations where lead concentrations exceeded the MPCA Industrial screening limit of 700 mg/kg. According to interviews and observations, the impact soil berms are still present on the Property.
- The former presence of hangars and re-fueling above-ground storage tank (AST) located on the Property is a REC due to the potential for leaks and spills of aircraft fuel impacting subsurface soils and the high water table which is present at the site.
- The City of Pine City Public Works currently utilizes a portion of the Property as a staging ground for stockpiles of street sweepings, gravel, wood chips, fill material of unknown origin, and potentially other materials. Due to the potential for these materials to have originated from a contaminated source, these stockpiles are a REC.

2.2.1 Phase II Investigation

A Phase II site investigation (the Investigation) was completed by Carlson McCain, dated July 8, 2019. Using a Delta Professional Alloy Plus XRF Analyzer (XRF), the Investigation identified lead concentrations in excess of the MPCA Industrial SRV screening limit of 700 mg/kg in seven separate

areas of the former rifle range, totaling 20,156 square feet. These areas and their respective square-footages are shown on Figures 2-4.

A confirmation soil sample was collected at least once per every 20 XRF readings. These samples were submitted to Pace Analytical for analysis. Table 1 provides a summary of the lead sample results. These results were used to calculate a correction factor to apply to the XRF readings, as the XRF can be affected by site-specific and instrument specific factors. Appendix A details how the correction factor was calculated. Table 2, which contains the results of the XRF screening, displays both the actual reading in the field, and the adjusted value (based on the analytical results).

Tetrachloroethene (PCE) was identified in two soil vapor samples VP-2 and VP-3, at concentrations of 349 micrograms per square meter (µg/m3). Both concentrations exceed the ISV of 33 µg/m3, but not the 33X ISV of 1,100 µg/m3 for PCE. PCE was not detected above laboratory reporting limits in either of the other two samples. Table 3 provides a summary of compounds detected in soil vapor as well as their corresponding MPCA screening limits. Sample locations are shown on Figure 5.

Other than low levels of metals, no impacts were identified in the samples collected from the soil borings. Limited PAHs and metals impacts were identified from the six composite samples taken from the two soil piles and limited DRO impacts were identified from the three composite samples taken from Stockpile One. Table 1 provides a summary of detected soil analytes and their associated MPCA Screening Limits. Sample locations are shown on Figure 5.

With the exception of barium (detected at concentrations far below its screening limit), there were no impacts detected in the groundwater samples collected. Sample locations are shown on Figure 5 and Table 5 provides a summary of detected groundwater analytes and their associated HRLs.

Copies of the laboratory analytical reports from the Investigation are included in Appendix B.

3.0 RESPONSE ACTION PLAN

This RAP outlines the procedures and methods that will be required for future industrial redevelopment. The RAP summarizes identified contamination and cleanup goals that will be applied in order for MPCA to approve of soil handling procedures; contingency planning and documentation are also addressed. The objective of the RAP is not to clean up all contamination soil that may be present in the Project Area but rather to properly manage contaminated soil that may be disturbed during construction. Upon completion of the project and review of a RAP Implementation Report, it is expected that MPCA will issue a letter acknowledging approval of the RAP Implementation.

3.1 Cleanup Approach and Goals

Cleanup approach and goals proposed for the Project Area will focus on risk-based Response Actions to remediate source areas and mitigate potential risk to human health and/or the environment. The RAP approach assumes that the city of Pine City will remove the soil stockpiles before any redevelopment occurs.

Proposed Response Actions will include the excavation and on-site management of lead-impacted soils, on- or off-site management of the soil stockpiles, and a second round of soil vapor sampling to determine if there is a need for mitigation systems in future buildings on the Property. The Cleanup Goals for lead-impacted soil will be based on MPCA Tier 2 Industrial SRVs. The Cleanup Goals for the soil stockpiles will be based on the MPCA BMP for Off-Site Reuse of Excess Fill.

Impacted groundwater was not identified. However, in the event that construction and/or redevelopment activities *do* include the need for dewatering, the discharged water will be evaluated and treated if necessary, to ensure that it meets requirements for discharge to the sanitary or storm sewer system, as appropriate.

The following sections discuss the different components of this cleanup approach.

3.1.1 Former Rifle Range

Lead-impacted surficial soil will be excavated and permanently stored on-site. Trained Carlson McCain personnel will be on-site during the removal of the impacted soil, field screening to ensure the entire horizontal and vertical extent of the impacted soil is removed.

Depending on the redevelopment plans, the soil will either be placed below a future parking lot or similar impermeable surface, or within a vegetated berm. An institutional control will be placed on the site to prevent future activities from mis-managing the stored lead-impacted soil. The actual placement of lead impacted soils will be incorporated into the specific use design of this area once it is determined.

3.1.2 Soil Vapor

Following MPCA guidance, a second round of vapor sampling will be completed during the heating season (November 1st-March 31st) to determine if there is a need for sub-slab soil vapor mitigation on any future potential buildings constructed at the Property.

3.1.3 Soil Stockpiles

The City of Pine City will remove the stockpiles before redevelopment of the parcel. Carlson McCain personnel will be on-site to field screen the soil during the removal of Stockpile One due to the presence of DRO identified during the Investigation. Six confirmatory samples will also be collected below the footprint of the stockpile, in accordance with MPCA Risk-Based Site Characterization and Sampling Guidance.

3.2 Health and Safety

All personnel working on-site will have appropriate OSHA training or will only be permitted to perform work under the direction of a Competent Person. A copy of all supporting health and safety documentation will be provided to Pine City prior to the start of work. All work is anticipated to be completed in modified Level D PPE. A site-specific health and safety plan (HASP) will be prepared, which all on-site personnel will be required to read and sign prior to the start of work. However, contractors will ultimately be responsible for maintaining safe operation of their personnel and equipment.

3.3 Contingency Planning

3.3.1 Unknown Conditions

It is possible that other environmental issues will be identified during excavation activities. While completing Response Actions, on-site personnel will note the occurrence of any of the following:

- Strong odors, staining, or other indicators of impacted soil;
- Unknown industrial wastes;
- Free phase product of any kind; and/or
- Unexpected buried objects such as dry wells, drums, tanks etc.

If an unknown condition is encountered during remediation or redevelopment activities, work will immediately cease and workers will temporarily vacate the immediate area. The Carlson McCain Project Manager and a Pine City representative will be contacted and will make a preliminary inspection to assess the situation. Depending on the results of the inspection and assessment, the MPCA may be contacted. In the event the situation is not deemed an emergency, the MPCA project managers will be contacted in order to reach a determination on how best to proceed.

If the situation is determined to be an emergency, the State of Minnesota Duty Officer will be notified and will in turn notify the MPCA's Emergency Response staff. In an emergency situation, work will not resume and workers will not return to the immediate location where the hazardous substance was encountered, until a determination is made on how to proceed.

3.3.2 Petroleum Contamination

The following corrective actions will be implemented in areas where petroleum contamination is identified:

- The MPCA will immediately be notified of the contamination and plans for soil handling will discussed;
- Petroleum contaminated soils at or greater than 200 ppm (PID), will be excavated and properly managed at an MPCA approved off-site disposal facility;

- Petroleum contaminated soils less than 200 ppm (PID) may be thin spread on-site, at a maximum thickness of 4-inches, beneath paved surfaces;
- Petroleum contaminated soils less than 100 ppm may be used to construct on-site landscape berms. However, soils will be mixed at a 50/50 ratio with clean soils and covered with at least two feet of unregulated fill and vegetative cover;
- Petroleum contaminated soils at or greater than 10 ppm (PID) encountered during the installation of underground utilities will be removed and properly managed. If contamination remains at or above 10 ppm or if soil gas exceeds its intrusive screening value (ISV) at the base or sidewalls of a utility trench, a vapor barrier will be installed in the utility trench.

3.4 Documentation

A RAP Implementation Report documenting all work related to Response Actions will be prepared after all remediation work is complete. This report will include documentation of field work including (but not limited to) methods and procedures, sample locations, dimensions of excavated areas, analytical results, approximate volumes or quantities of materials being managed off-site, volumes or quantities of materials taken to disposal facilities, waste manifests, vapor mitigation information, documentation of import fill soil sources, contingency actions, and/or photographic documentation. Tables, figures, and appendices will be included as appropriate.

3.5 Schedule

It is anticipated that the implementation of Response Actions will begin in mid-September, 2019 and will be completed as required for overall site development. After receipt of analytical results, a RAP Implementation Report will be prepared and submitted to the MDA. Assuming that clean-up goals have been met, it is expected that the MPCA will issue No Further Action letters for the industrial development.

4.0 REFERENCES

Phase I Environmental Site Assessment dated February 14, 2019 prepared by Carlson McCain, Inc.

Phase II Site Investigation dated July 8, 2019 prepared by Carlson McCain, Inc.

Minnesota Pollution Control Agency Risk-Based Guidance for the Soil - Human Health Pathway – updated June 2009.

Minnesota Pollution Control Agency Risk Based Guidance for Evaluating the Soil Leaching Pathway – dated June 2013.

Minnesota Pollution Control Agency Risk Based Site Characterization and Sampling Guidance – dated September 1998.

Minnesota Pollution Control Agency Best Management Practices for Vapor Investigation and Building Mitigation Decisions – dated October2017.

Minnesota Pollution Control Agency - Drinking Water Criteria Spreadsheet, dated October 2009.

MPCA Petroleum Remediation Program Guidance Documents.

MPCA Best Management Practices for the Off-Site Beneficial Re Use of Unregulated Fill, dated 2012.

5.0 CERTIFICATION

Carlson McCain has prepared this Interim Response Action Plan for the exclusive use of Pine City, for specific application to the Industrial Park: Parcel A, located at 505 Airport Road Northeast, in Pine City, Pine County, Minnesota. The services performed by Carlson McCain for this Project have been conducted in a manner consistent with the level of skill and care ordinarily exercised by other members of the profession currently practicing in this area. No other warranty, expressed or implied, is made.

Name and Title:	Signature:	Date Signed:
Danny Margarit –Environmental Scientist		July 15, 2019
John Lichter, P.E. – Project Manager		July 15, 2019
Wade Carlson, P.G. - Principal		July 15, 2019

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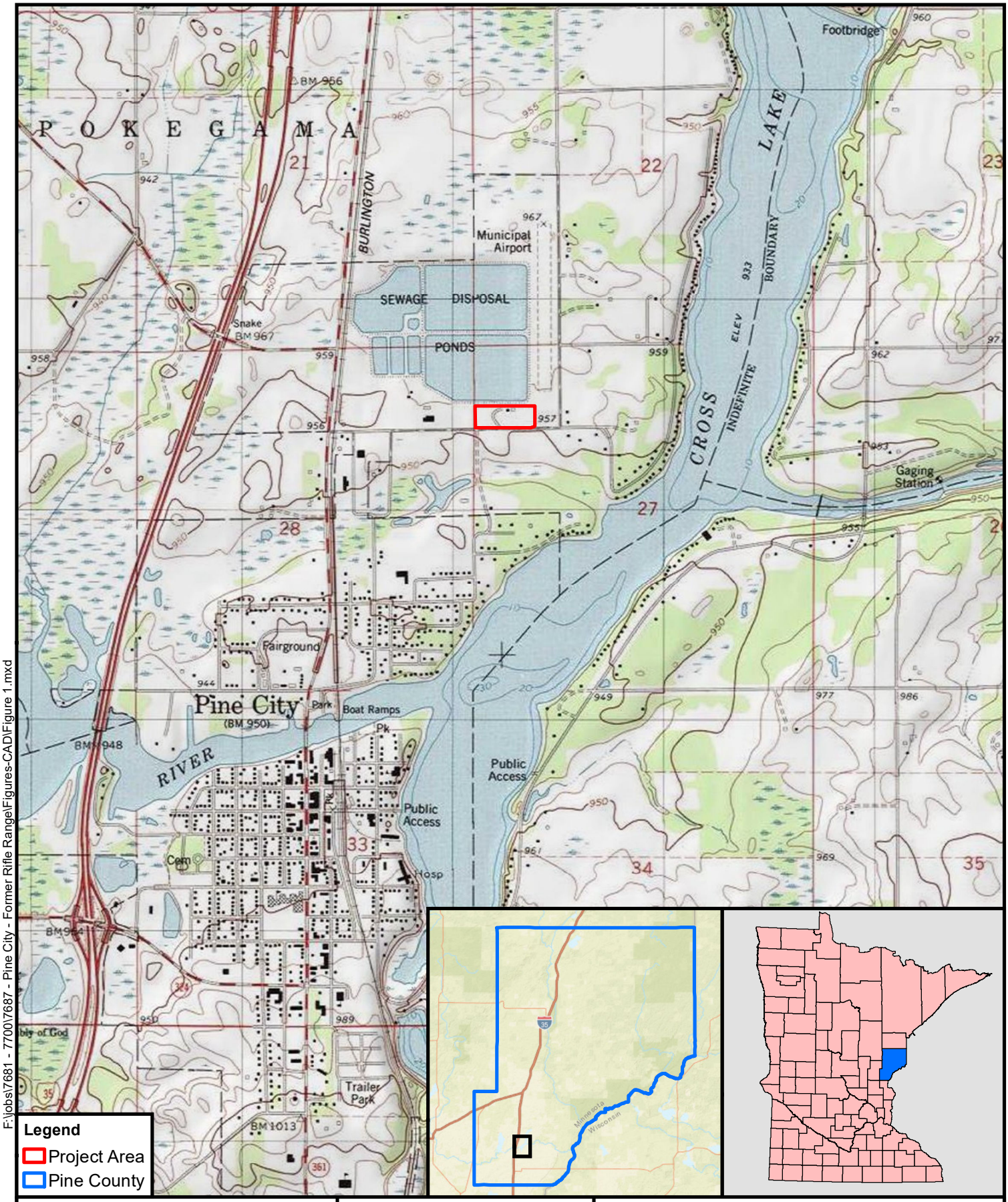
Figures



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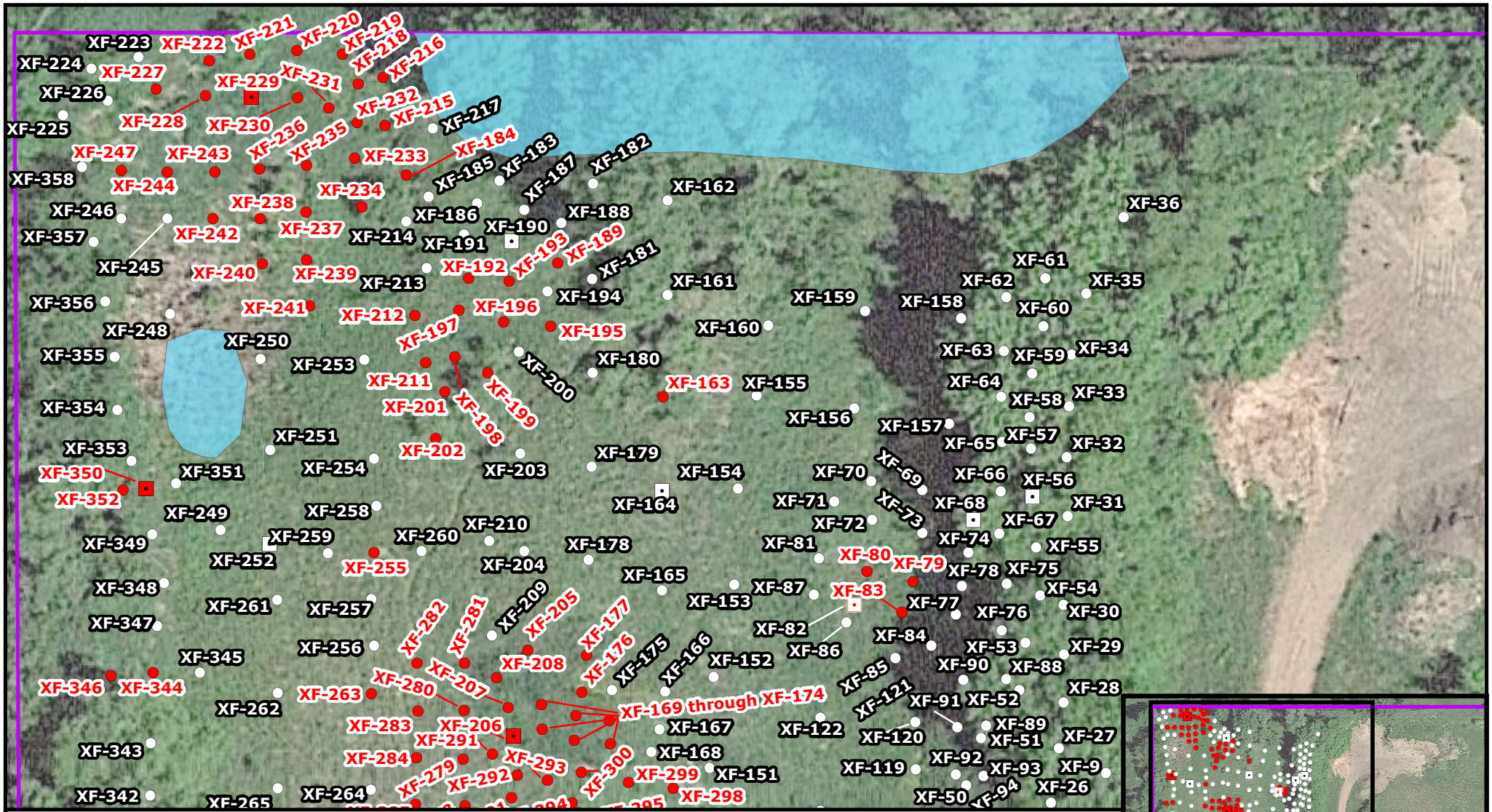
Basemap: USGS 7.5 Min Quadrangle

Figure 1
Site Location Map
Response Action Plan
Industrial Park: Parcel A
Pine City, Minnesota



Legend

- Adjusted XRF Value Below Screening Limit
- Adjusted XRF Value Above Screening Limit
- Standing Water
- Project Area
- Adjusted XRF Value and Analytical Results Below Screening Limit
- Adjusted XRF Value and Analytical Results Above Screening Limit
- Adjusted XRF Value Below, but Analytical Results Above Screening Limit
- Adjusted XRF Value Over, but Analytical Results Below Screening Limit

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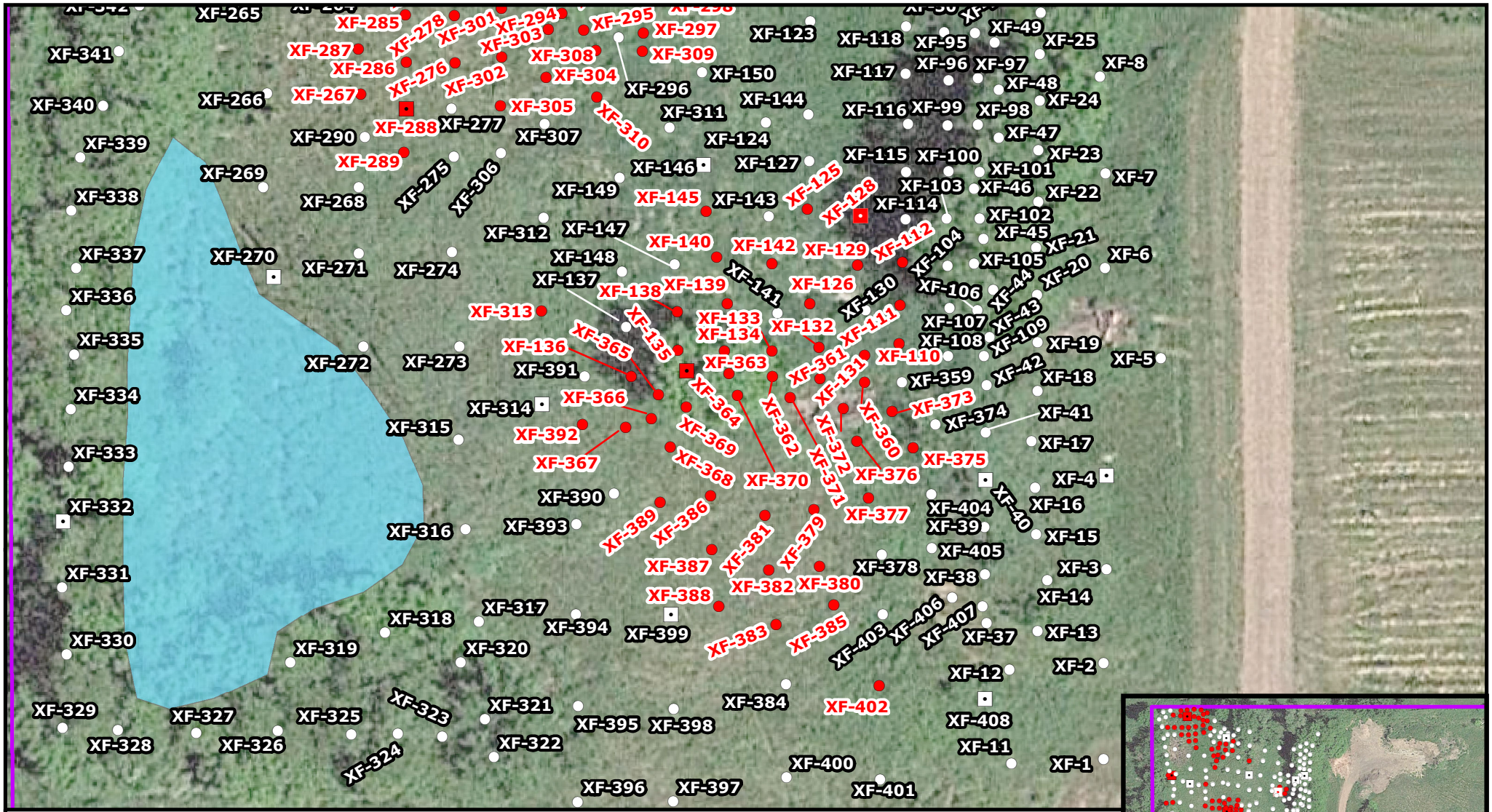
Basemap: Google Earth, 2019.

Response Action Plan
Industrial Park: Parcel A
Pine City, Minnesota

Figure 2
Former Rifle Range - North Half



Legend

- Adjusted XRF Value Below Screening Limit
- Adjusted XRF Value Above Screening Limit
- Standing Water
- Project Area
- Adjusted XRF Value and Analytical Results Below Screening Limit
- Adjusted XRF Value and Analytical Results Above Screening Limit
- Adjusted XRF Value Below, but Analytical Results Above Screening Limit
- Adjusted XRF Value Over, but Analytical Results Below Screening Limit

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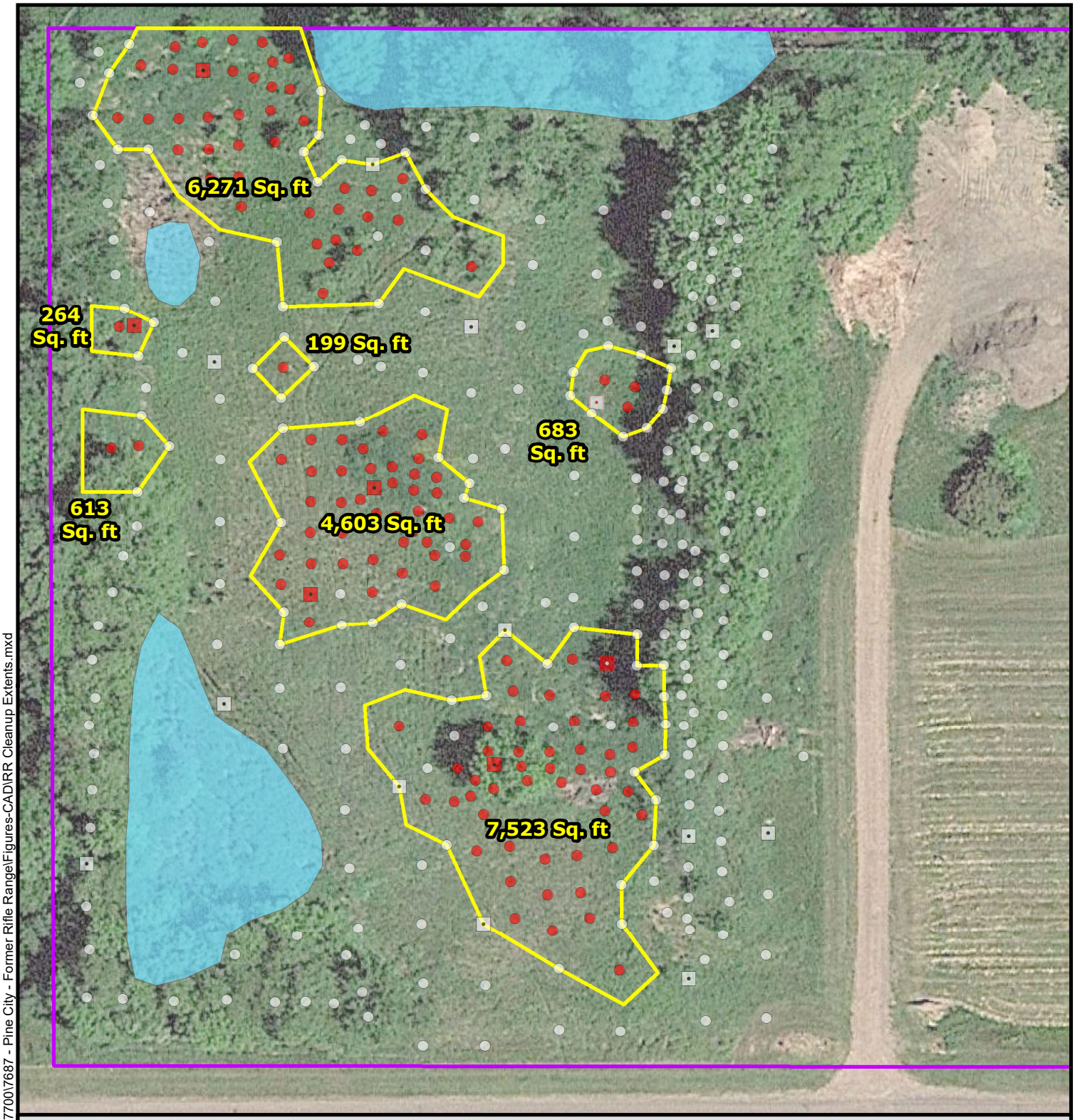
Basemap: Google Earth, 2019.

Response Action Plan
Industrial Park: Parcel A
Pine City, Minnesota

Figure 3
Former Rifle Range - South Half



Legend

- Adjusted XRF Value Below Screening Limit
- Adjusted XRF Value Above Screening Limit
- Standing Water
- Project Area
- Extent of Lead Mitigation in Surficial Soil
- Adjusted XRF Value and Analytical Results Below Screening Limit
- Adjusted XRF Value and Analytical Results Above Screening Limit
- Adjusted XRF Value Below, but Analytical Results Above Screening Limit
- Adjusted XRF Value Over, but Analytical Results Below Screening Limit

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Basemap: Google Earth, 2019.

Figure 4- Former Rifle Range Remediation

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Industrial Park: Parcel A
Pine City, Minnesota

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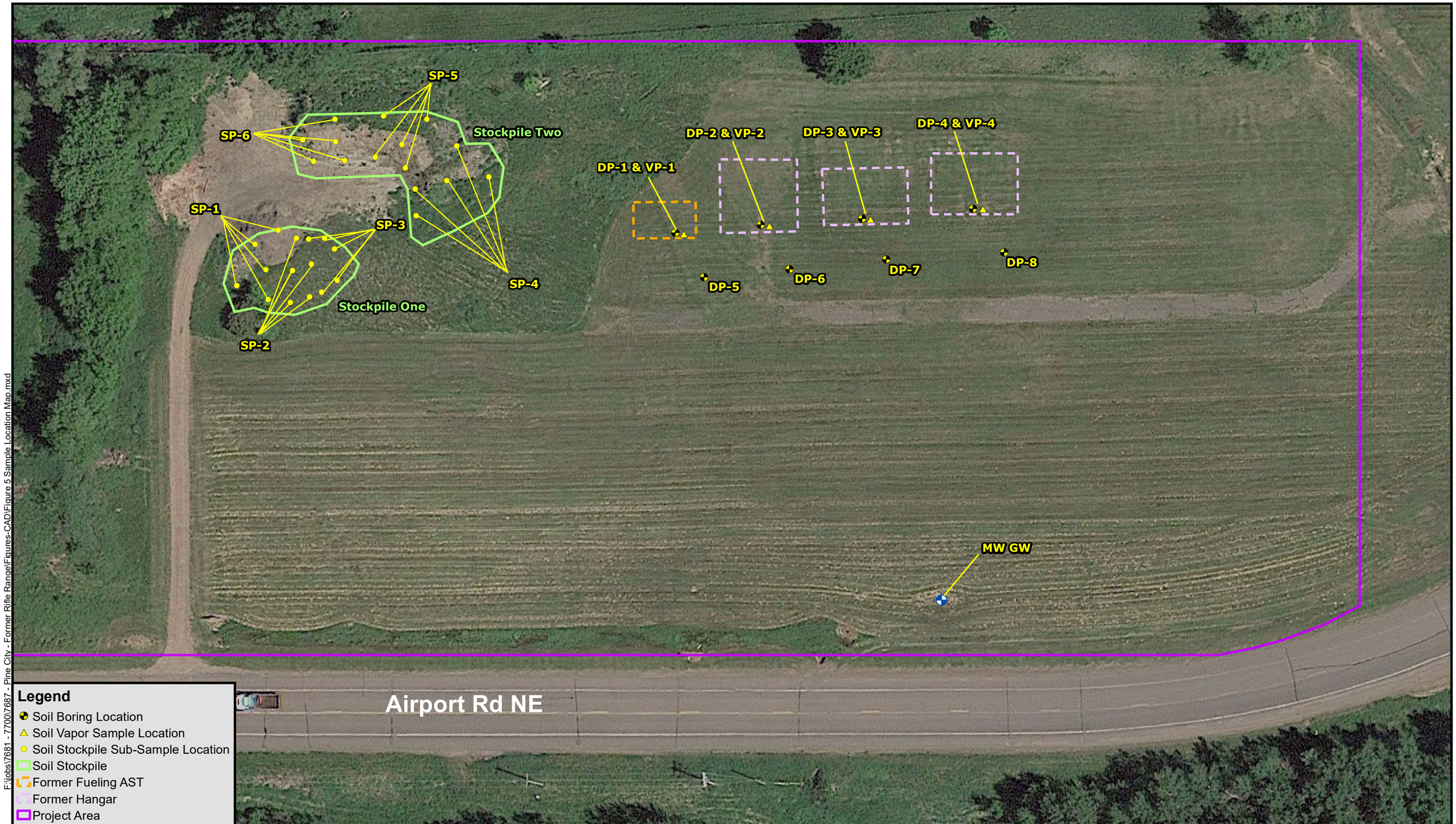
July 2019



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Basemap: Google Earth, 2019.

Response Action Plan

Industrial Park: Parcel A
Pine City, Minnesota

Figure 5
Sample Location Map

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Tables

Table 1
Summary of Lead Sample Analytical Results
Pine City Industrial Park: Parcel A
Carlson McCain Project No. 7687-00

Sample Location	Lead Concentration	XRF Reading	Adjusted XRF Reading
XF-4	10.9	118	249
XF-40	26.2	42	51
XF-56	12.4	24	5
XF-68	40.4	46	62
XF-82	586	338	821
XF-111	1,720	867	2,196
XF-128	906	218	509
XF-146	696	170	384
XF-164	125	41	49
XF-190	170	160	358
XF-206	22,100	4,515	11,679
XF-229	25,100	6,437	16,675
XF-252	567	220	514
XF-270	167	55	85
XF-288	829	596	1,492
XF-314	401	195	449
XF-332	38	41	49
XF-350	3,950	676	1,700
XF-364	2,600	1,007	2,560
XF-399	301	224	525
XF-408	7.7	16	0

Notes:

- Screening limit of 700 parts-per-million exceeded
- XRF readings adjusted based on a linear regression "line of best fit," which was calculated using analytical results of confirmation samples. Details of these calculations are found in Appendix A.

Table 2
Summary of XRF Screening Results
Pine City Industrial Park: Parcel A
Carlson McCain Project No. 7687-00

Sample Location	XRF Reading (ppm)	Adjusted Value (ppm)	Sample Location	XRF Reading (ppm)	Adjusted Value (ppm)	Sample Location	XRF Reading (ppm)	Adjusted Value (ppm)	Sample Location	XRF Reading (ppm)	Adjusted Value (ppm)	Sample Location	XRF Reading (ppm)	Adjusted Value (ppm)	Sample Location	XRF Reading (ppm)	Adjusted Value (ppm)	Sample Location	XRF Reading (ppm)	Adjusted Value (ppm)	Sample Location	XRF Reading (ppm)	Adjusted Value (ppm)
XF-1	13	~	XF-52	25	7	XF-103	91	179	XF-154	34	31	XF-205	372	909	XF-256	274	655	XF-307	209	486	XF-358	56	88
XF-2	15	~	XF-53	51	75	XF-104	159	356	XF-155	39	44	XF-206	4,515	11,679	XF-257	218	509	XF-308	1,263	3,225	XF-359	284	681
XF-3	17	~	XF-54	17	~	XF-105	90	176	XF-156	63	106	XF-207	1,160	2,958	XF-258	202	467	XF-309	320	774	XF-360	502	1,247
XF-4	118	249	XF-55	10	~	XF-106	59	96	XF-157	27	13	XF-208	433	1,068	XF-259	205	475	XF-310	390	956	XF-361	11,122	28,854
XF-5	10	~	XF-56	24	5	XF-107	121	257	XF-158	96	192	XF-209	281	673	XF-260	262	623	XF-311	177	402	XF-362	5,870	15,201
XF-6	26	10	XF-57	20	~	XF-108	196	452	XF-159	66	114	XF-210	237	558	XF-261	69	122	XF-312	225	527	XF-363	2,421	6,236
XF-7	31	23	XF-58	20	~	XF-109	54	83	XF-160	60	98	XF-211	634	1,590	XF-262	222	519	XF-313	418	1,029	XF-364	1,007	2,560
XF-8	14	~	XF-59	20	~	XF-110	492	1,221	XF-161	64	109	XF-212	385	943	XF-263	345	839	XF-314	195	449	XF-365	862	2,183
XF-9	0	~	XF-60	30	20	XF-111	867	2,196	XF-162	284	681	XF-213	88	171	XF-264	283	678	XF-315	95	189	XF-366	2,462	6,342
XF-10	0	~	XF-61	18	~	XF-112	575	1,437	XF-163	334	811	XF-214	85	163	XF-265	216	504	XF-316	74	135	XF-367	505	1,255
XF-11	16	~	XF-62	30	20	XF-113	141	309	XF-164	41	49	XF-215	1,163	2,966	XF-266	162	363	XF-317	65	111	XF-368	2,114	5,438
XF-12	14	~	XF-63	48	67	XF-114	78	145	XF-165	76	140	XF-216	406	998	XF-267	459	1,135	XF-318	23	2	XF-369	2,813	7,255
XF-13	15	~	XF-64	38	41	XF-115	121	257	XF-166	136	296	XF-217	152	337	XF-268	145	319	XF-319	24	5	XF-370	4,570	11,822
XF-14	16	~	XF-65	59	96	XF-116	110	228	XF-167	231	543	XF-218	867	2,196	XF-269	119	252	XF-320	40	46	XF-371	9,002	23,343
XF-15	13	~	XF-66	25	7	XF-117	54	83	XF-168	239	564	XF-219	393	964	XF-270	55	85	XF-321	50	72	XF-372	2,730	7,039
XF-16	11	~	XF-67	27	13	XF-118	99	200	XF-169	605	1,515	XF-220	884	2,240	XF-271	62	103	XF-322	11	~	XF-373	1,990	5,115
XF-17	16	~	XF-68	46	62	XF-119	56	88	XF-170	484	1,200	XF-221	298	717	XF-272	19	~	XF-323	24	5	XF-374	156	348
XF-18	29	18	XF-69	35	33	XF-120	98	197	XF-171	883	2,238	XF-222	841	2,128	XF-273	84	161	XF-324	30	20	XF-375	384	941
XF-19	21	~	XF-70	40	46	XF-121	~	~	XF-172	2,173	5,591	XF-223	174	395	XF-274	101	205	XF-325	33	28	XF-376	3,201	8,263
XF-20	14	~	XF-71	72	129	XF-122	76	140	XF-173	789	1,993	XF-224	73	132	XF-275	169	382	XF-326	13	~	XF-377	713	1,796
XF-21	18	~	XF-72	40	46	XF-123	235	553	XF-174	2,152	5,536	XF-225	68	119	XF-276	477	1,182	XF-327	9	~	XF-378	209	486
XF-22	28	15	XF-73	37	39	XF-124	112	233	XF-175	241	569	XF-226	201	465	XF-277	237	558	XF-328	23	2	XF-379	954	2,422
XF-23	43	54	XF-74	18	~	XF-125	410	1,008	XF-176	418	1,029	XF-227	523	1,302	XF-278	1,055	2,685	XF-329	17	~	XF-380	411	1,011
XF-24	31	23	XF-75	44	57	XF-126	371	907	XF-177	333	808	XF-228	2,108	5,422	XF-279	1,834	4,710	XF-330	17	~	XF-381	842	2,131
XF-25	41	49	XF-76	32	26	XF-127	191	439	XF-178	107	220	XF-229	6,437	16,675	XF-280	999	2,539	XF-331	11	~	XF-382	844	2,136
XF-26	24	5	XF-77	80	150	XF-128	218	509	XF-179	141	309	XF-230	8,890	23,052	XF-281	362	883	XF-332	41	49	XF-383	469	1,161
XF-27	59	96	XF-78	57	90	XF-129	460	1,138	XF-180	133	288	XF-231	1,206	3,077	XF-282	501	1,245	XF-333	23	2	XF-384	183	418
XF-28	36	36	XF-79	485	1,203	XF-130	159	356	XF-181	92	181	XF-232	3,355	8,664	XF-283	497	1,234	XF-334	22	~	XF-385	316	764
XF-29	21	~	XF-80	405	995	XF-131	1,540	3,946	XF-182	104	213	XF-233	931	2,362	XF-284	669	1,681	XF-335	21	~	XF-386	1,558	3,992
XF-30	30	20	XF-81	81	153	XF-132	947	2,404	XF-183	99	200	XF-234	324	785	XF-285	1,043	2,654	XF-336	32	26	XF-387	511	1,271
XF-31	30	20	XF-82	338	821	XF-133	1,270	3,244	XF-184	311	751	XF-235	979	2,487	XF-286	689	1,733	XF-337	44	57	XF-388	364	889
XF-32	38	41	XF-83	1,275	3,257	XF-134	1,652	4,237	XF-185	140	306	XF-236	1,535	3,933	XF-287	310	748	XF-338	39	44	XF-389	330	800
XF-33	15	~	XF-84	76	140	XF-135	665	1,671	XF-186	115	241	XF-237	776	1,960	XF-288	596	1,492	XF-339	39	44	XF-390	197	454
XF-34	15	~	XF-85	52	77	XF-136	600	1,502	XF-187	88	171	XF-238	1,435	3,673	XF-289	459	1,135	XF-340	21	~	XF-391	283	678
XF-35	0	~	XF-86	70	124	XF-137	236	556	XF-188	46	62	XF-239	634	1,590	XF-290	165	371	XF-341	32	26	XF-392	424	1,045
XF-36	0	~	XF-87	128	275	XF-138	501	1,245	XF-189	432	1,065	XF-240	330	800	XF-291	4,430	11,458	XF-342	41	49	XF-393	138	301
XF-37	31	23	XF-88	41	49	XF-139	1,040	2,646	XF-190	160	358	XF-241	313	756	XF-292	4,014	10,377	XF-343	15	~	XF-394	58	93
XF-38	28	15	XF-89	19	~	XF-140	308	743	XF-191	114	239	XF-242	455	1,125	XF-293	1,108	2,823	XF-344	737	1,858	XF-395	45	59
XF-39	9	~	XF-90	52	77	XF-141	255	605	XF-192	450	1,112	XF-243	1,013	2,576	XF-294	1,077	2,742	XF-345	76	140	XF-396	22	~
XF-40	42	51	XF-91	41	49	XF-142	320	774	XF-193	680	1,710	XF-244	2,676	6,899	XF-295	3,830	9,898	XF-346	373	912	XF-397	162	363
XF-41	55	85	XF-92	63	106	XF-143	188	431	XF-194	265	631	XF-245	199	460	XF-296	162	363	XF-347	79	148	XF-398	70	124
XF-42	53	80	XF-93	22	~	XF-144	47	64	XF-195	369	902	XF-246	115	241	XF-297	430	1,060	XF-348	57	90	XF-399	224	525
XF-43	105	215	XF-94	60	98	XF-145	748	1,887	XF-196	1,351	3,454	XF-247	715	1,801	XF-298	292	701	XF-349	55	85	XF-400	12	~
XF-44	57	90	XF-95	57	90	XF-146	170	384	XF-197	834	2,110	XF-248	106	218	XF-299	493	1,224	XF-350	676	1,700	XF-401	23	2
XF-45	46	62	XF-96	93	184	XF-147	147	324	XF-198	1,350	3,452	XF-249	59	96	XF-300	1,313	3,355	XF-351	113	236	XF-402	316	764
XF-46	22	~	XF-97	51	75	XF-148	218	509	XF-199	374	915	XF-250	186	426	XF-301	3,680	9,508	XF-352	387	948	XF-403	60	98
XF-47	51	75	XF-98	34	31	XF-149	179	408	XF-200	269	642	XF-251	100	202	XF-302	999	2,539	XF-353	263	626	XF-404	27	13
XF-48	33	28	XF-99	64	109	XF-150	225	527	XF-201	470	1,164	XF-252	220	514	XF-303	1,630	4,180	XF-354	27	13	XF-405	29	18
XF-49	37	39	XF-100	41	49	XF-151	130	280	XF-202	293	704	XF-253	85	163	XF-304	1,111	2,830	XF-355	77	142	XF-406	33	28
XF-50	79	148	XF-101	43	54	XF-152	72	129	XF-203	291	699	XF-254	196	452	XF-305	457	1,130	XF-356	39	44	XF-407	31	23
XF-51	17	~	XF-102	45	59	XF-153	57	90	XF-204	167	376	XF-255	521	1,297	XF-306	235	553	XF-357	45	59	XF-408	16	~

Notes:

· Screening limit of 700 parts-per-million exceeded

· XRF readings adjusted based on a linear regression "line of best fit," which was calculated using analytical results of confirmation samples. Details of these calculations are found in Appendix A.

Table 3
Summary of Detected Analytes in Soil Vapor
Pine City Industrial Park: Parcel A
Carlson McCain Project No. 7687-00

Analyte	CAS #	COM/IND ISVs	COM/IND 33X ISVs	Analytical Results			
				VP-1 05/17/2019	VP-2 05/17/2019	VP-3 05/17/2019	VP-4 05/17/2019
Acetone	67-64-1	110,000	3,700,000	**23.7**	**64.7**	**15.7**	**14**
Benzene	71-43-2	45	1,500	**1.4**	**3.5**	**2**	**0.71**
Chloromethane	74-87-3	320	11,000	**1.4**	<3.6	**1.4**	**1.1**
Dichlorodifluoromethane	75-71-8	NA	NA	**2.8**	<8.6	**2.6**	**3**
Ethanol	64-17-5	NA	NA	**4.9**	**271**	**5.7**	**5.6**
Ethylbenzene	100-41-4	39	1,300	**2.1**	<7.5	<1.6	<1.6
n-Hexane	110-54-3	2,500	83,000	**1.5**	**15**	**3.2**	**1.3**
Methylene Chloride	75-09-2	2,100	70,000	**15**	**205**	**19**	**15.2**
Propylene	115-07-1	11,000	370,000	**21.3**	**68.7**	**121**	**15.2**
Tetrachloroethene	127-18-4	33	1,100	<1.2	**349**	**58.3**	<1.2
Tetrahydrofuran	109-99-9	7,000	230,000	**10.3**	**21.4**	**11.7**	**10.7**
Toluene	108-88-3	14,000	470,000	**3.5**	**11.4**	**5**	**3.1**
Trichloroethene	79-01-6	7	230	<0.95	<4.6	**2.4**	<0.97
1,2,4-Trimethylbenzene	95-63-6	210	7,000	**2.9**	<8.5	<1.8	<1.8
m&p-Xylene	108-38-3	350	12,000	**6.4**	<15.0	<3.2	<3.1
o-Xylene	95-47-6	350	12,000	**2.2**	<7.5	<1.6	<1.6

Notes:

- Results in µg/m^3 (micrograms per cubic meter)
- **Bold** = result above laboratory reporting limit
- < = Less than
- NE = Not Established
- Intrusion screening values (ISVs) are numerical values representing the safe amount of a chemical in indoor air for people who occupy a building, published May 29, 2019 by the MPCA.
- 33X accounts for the U.S. Environmental Protection Agency (EPA) default vapor intrusion attenuation factor of 0.03
- Result exceeded ISV
- Result exceeded 33x ISV

Table 4
Summary of Detected Analytes in Soil
Pine City Industrial Park: Parcel A
Carlson McCain Project No. 7687-00

Analyte	CAS No.	Screening Limits				Analytical Results														
		MPCA SLVs	MPCA RES SRVs	MPCA IND SRVs	MPCA STW	DP-1 (1-3') 5/17/19	DP-2 (1-2') 5/17/19	DP-3 (1-3') 5/17/19	DP-4 (1-3') 5/17/19	DP-5 (3-5') 5/17/19	DP-6 (3-5') 5/17/19	DP-7 (4-6') 5/17/19	DP-8 (5-7') 5/17/19	SP-1 5/17/19	SP-2 5/17/19	SP-3 5/17/19	SP-4 5/17/19	SP-5 5/17/19	SP-6 5/17/19	Trip Blank 5/17/19
Metals																				
Arsenic	7440-38-2	5.8	9	20	70	**2.2**	**1.9**	**2.1**	**2.8**	**2.5**	**1.9**	<5.8	**2.1**	**1.3**	**1.7**	**1.9**	**2.8**	**3.9**	**3.2**	NS
Barium	7440-39-3	1,700	1,100	18,000	14,000	**40.1**	**42.7**	**37.2**	**61.9**	**33.2**	**34**	**71.6**	**30.3**	**20.5**	**23.5**	**21.5**	**58.4**	**95.6**	**77.4**	NS
Chromium	7440-47-3	1,000,000,040(2)	44,000(2)	100,000(2)	100,000(2)	**17.5**	**15.7**	**13.6**	**26.9**	**16.6**	**15.4**	**35.8**	**19.9**	**12**	**14.2**	**10.5**	**15.5**	**18.8**	**37.8**	NS
Lead	7439-92-1	2,700	300	700	700	**5.9**	**2.9**	**5.9**	**4.6**	**2.6**	**3.1**	**5.1**	**2.5**	**3.2**	**4.1**	**5.4**	**6.2**	**9.6**	**6.2**	NS
Mercury	7439-97-6	3.3	0.5	1.5	0.4	<0.023	<0.020	<0.021	<0.022	<0.022	<0.021	<0.022	<0.022	<0.019	<0.020	<0.021	<0.021	**0.025**	<0.023	NS
Volatile Organic Compounds (VOCs)																				
No Detections						No Detections														
Polynuclear Aromatic Hydrocarbons (PAHs)																				
Calculated cBaP Equivalent	NE	1.4	2	3	14	<0.016	<0.016	<0.016	<0.017	<0.016	<0.017	<0.017	<0.016	**0.148**	**0.006**	**0.064**	**0.052**	<0.018	**0.035**	NS
Benzo(a)anthracene	56-55-3	*See cBaP*	*See cBaP*	*See cBaP*	*See cBaP*	<0.0117	<0.0114	<0.0113	<0.0119	<0.0113	<0.0119	<0.0121	<0.0114	**0.0962**	<0.0548	**0.0354**	**0.0278**	<0.0125	**0.0225**	NS
Benzo(a)pyrene	50-32-8	1.4	2	3	14	<0.0117	<0.0114	<0.0113	<0.0119	<0.0113	<0.0119	<0.0121	<0.0114	**0.116**	<0.0548	**0.0505**	**0.0397**	<0.0125	**0.0254**	NS
Benzo(b)fluoranthene	205-99-2	*See cBaP*	*See cBaP*	*See cBaP*	*See cBaP*	<0.0117	<0.0114	<0.0113	<0.0119	<0.0113	<0.0119	<0.0121	<0.0114	**0.155**	**0.057**	**0.0655**	**0.0595**	<0.0125	**0.0395**	NS
Benzo(k)fluoranthene	207-08-9	*See cBaP*	*See cBaP*	*See cBaP*	*See cBaP*	<0.0117	<0.0114	<0.0113	<0.0119	<0.0113	<0.0119	<0.0121	<0.0114	**0.0546**	<0.0548	**0.0322**	**0.0271**	<0.0125	**0.015**	NS
Chrysene	218-01-9	*See cBaP*	*See cBaP*	*See cBaP*	*See cBaP*	<0.0117	<0.0114	<0.0113	<0.0119	<0.0113	<0.0119	<0.0121	<0.0114	**0.136**	<0.0548	**0.0657**	**0.0474**	<0.0125	**0.0286**	NS
Indeno(1,2,3-cd)pyrene	193-39-5	*See cBaP*	*See cBaP*	*See cBaP*	*See cBaP*	<0.0117	<0.0114	<0.0113	<0.0119	<0.0113	<0.0119	<0.0121	<0.0114	<0.0528	<0.0548	<0.0111	<0.0114	<0.0125	**0.0164**	NS
Anthracene	120-12-7	1,300	7,880	45,400	100,000	<0.0117	<0.0114	<0.0113	<0.0119	<0.0113	<0.0119	<0.0121	<0.0114	<0.0528	<0.0548	**0.0172**	<0.0114	<0.0125	<0.0118	NS
Benzo(g,h,i)perylene	191-24-2	NE	NE	NE	NE	<0.0117	<0.0114	<0.0113	<0.0119	<0.0113	<0.0119	<0.0121	<0.0114	**0.118**	<0.0548	<0.0111	**0.0419**	<0.0125	**0.0253**	NS
Fluoranthene	206-44-0	670	1,080	6,800	48,600	<0.0117	<0.0114	<0.0113	<0.0119	<0.0113	<0.0119	<0.0121	<0.0114	**0.312**	**0.0715**	**0.102**	**0.0876**	<0.0125	**0.0565**	NS
Phenanthrene	85-01-8	NE	NE	NE	NE	<0.0117	<0.0114	<0.0113	<0.0119	<0.0113	<0.0119	<0.0121	<0.0114	**0.197**	<0.0548	**0.0597**	**0.0409**	<0.0125	**0.0272**	NS
Pyrene	129-00-0	440	890	5,800	43,000	<0.0117	<0.0114	<0.0113	<0.0119	<0.0113	<0.0119	<0.0121	<0.0114	**0.245**	**0.0648**	**0.097**	**0.0754**	<0.0125	**0.0457**	NS
Petroleum Hydrocarbons																				
Diesel Range Organics (DRO)	NE	100(1)				<8.9	<7.7	<9.6	<8.6	<9.0	<8.6	<8.6	<8.2	**56.7**	**81.4**	**43**	<10.2	<11.0	<11.4	NS
Gasoline Range Organics (GRO)	NE	100(1)				<12.2	<11.6	<11.6	<12.0	<10.8	<12.3	<12.0	<11.7	<11.2	<11.8	<11.2	<12.2	<13.7	<11.6	<10.0

Notes:

- Results in milligrams per kilogram (mg/kg), which is roughly equivalent to parts per million
- < = Less than
- **Bold** = result above labaratory reporting limit
- (1) Screening limit based on MPCA Best Management Practices for Off-Site Reuse of Excess Fill
- (2) Screening limit for trivalent chromium
- Screening limit exceeded
- NS = Not Sampled
- NE = Not established
- IND = Industrial
- RES = Residential
- MPCA = Minnesota Pollution Control Agency
- SLV = MPCA Remediation Division Soil Leaching Pathway (6/13)
- SRV = MPCA Soil Reference Value - Risk Based Site Evaluation Guidance for Soil - Human Health Pathway (6/09 and 08/17)
- STW = Short Term Worker
- cBaP = Carcinogenic Benzo(a)pyrene
- cBaPs calculated using MPCA Remediation Soil Reference Spreadsheet

Table 5
Summary of Detected Analytes in Groundwater
Pine City Industrial Park: Parcel A
Carlson McCain Project No. 7687-00

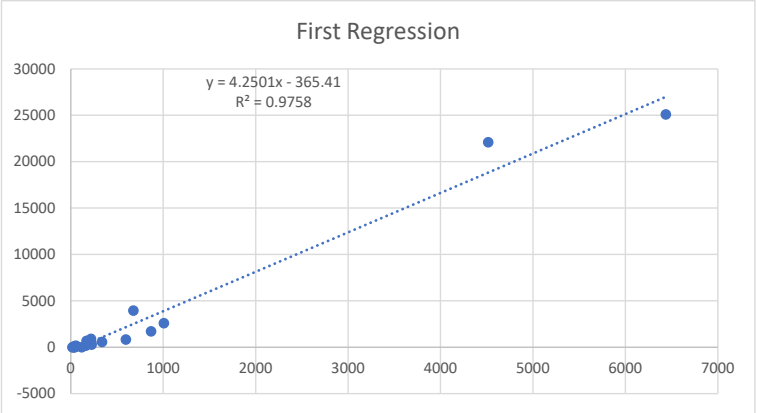
Analyte	CAS No.	MDH HRL	DP-1 GW 5/17/19	DP-2 GW 5/17/19	DP-3 GW 5/17/19	DP-4 GW 5/17/19	DP-5 GW 5/17/19	DP-8 GW 5/17/19	MWGW 5/17/19	Trip Blank 5/17/19
Metals										
Barium	7440-39-3	2,000	**57.3**	**53.8**	**68.4**	**27.7**	**56.4**	**16**	**73.8**	NS
Volatile Organic Compounds (VOCs)										
No Detections			No Detections							
Polynuclear Aromatic Hydrocarbons (PAHs)										
No Detections			No Detections							
Petroleum Hydrocarbons										
Diesel Range Organics (DRO)	NE	50[1]	<120	<110	<120	<120	<110	<120	<100	NS
Gasoline Range Organics (GRO)	NE	50[1]	<100	<100	<100	<100	<100	<100	<100	<100

Notes:

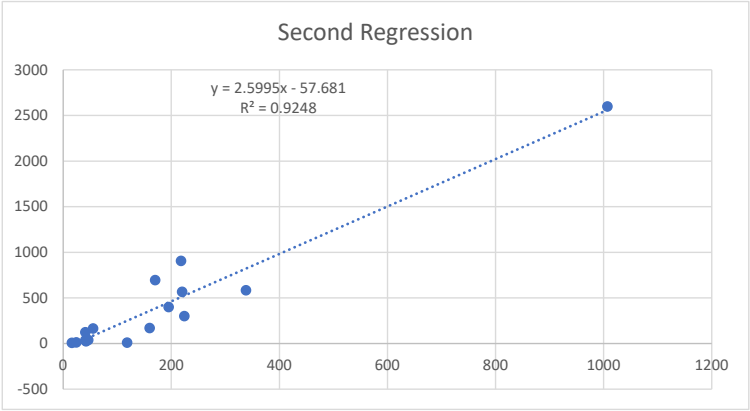
- Results in micrograms per liter (µg/L), which is roughly equivalent to parts per billion (ppb)
- < = Less than the labaratory reporting limit
- **Bold** = result above labaratory reporting limit
- HRL Exceedance
- (1) In the absence of a HRL for DRO or GRO, the MDH draft "Drinking Water Criteria for Petroleum Constituents" level of 50 µg/L was used for screening purposes
- MDH HRL = Minnesota Department of Health, Health Risk Limit
- NE = Not Established
- NS = Not Sampled

APPENDIX A

Sample Location	XRF Reading	Analytical Result	Calculated Result	Residual
XF-4	118	10.9	136	-125
XF-40	42	26.2	-187	213
XF-56	24	12.4	-263	276
XF-68	46	40.4	-170	210
XF-82	338	586	1,071	-485
XF-111	867	1720	3,319	-1,599
XF-128	218	906	561	345
XF-146	170	696	357	339
XF-164	41	125	-191	316
XF-190	160	170	315	-145
XF-206	4515	22100	18,824	3,276
XF-229	6437	25100	26,992	-1,892
XF-252	220	567	570	-3
XF-270	55	167	-132	299
XF-288	596	829	2,168	-1,339
XF-314	195	401	463	-62
XF-332	41	38	-191	229
XF-350	676	3950	2,508	1,442
XF-364	1007	2600	3,914	-1,314
XF-399	224	301	587	-286
XF-408	16	7.7	-297	305



XF-4	118	10.9	249.06	-238.16
XF-40	42	26.2	51.498	-25.298
XF-56	24	12.4	4.707	7.693
XF-68	46	40.4	61.896	-21.496
XF-82	338	586	820.95	-234.95
~~XF-111~~				
XF-128	218	906	509.01	396.99
XF-146	170	696	384.234	311.766
XF-164	41	125	48.8985	76.1015
XF-190	160	170	358.239	-188.239
~~XF-206~~				
~~XF-229~~				
XF-252	220	567	514.209	52.791
XF-270	55	167	85.2915	81.7085
~~XF-288~~				
XF-314	195	401	449.2215	-48.2215
XF-332	41	38	48.8985	-10.8985
~~XF-350~~				
XF-364	1007	2600	2560.0155	39.9845
XF-399	224	301	524.607	-223.607
XF-408	16	7.7	-16.089	23.789



A scatterplot was created by plotting the XRF readings against analytical results, for each location where an analytical sample was collected. A "line of best fit," otherwise known as a "trendline," was calculated by excel which gave a slope and intercept of a simple linear equation that approximates the relationship between the XRF reading and the anayltical result. The R-squared value is a measure of the equation's accuracy. A linear equation that fits the data perfectly will have an R-squared value of 1 and an equation that does not describe the data at all will have an R-squared value of 0.

After the first trendline was calculated, the XRF readings were plugged into the newly created equation and theoretical results were calculated. These calculated results were then subtracted from the actual analytical results. The difference for each sample, known as the "residual," shows the difference between the trendline and the actual analytical result for that XRF reading. Using a trial and error method, data points were removed from the regression, until the most accruate trendline was calculated. Five data points were found to be outliers and removed (XF-111, -206, -229, -288, and -350). The second linear regression, without these data points, fit the data the best, producing the highest R-squared value (0.9248), while minimizing the residuals (ie, more accurately describing the data). Thus the equation from the second regression was used to adjust the XRF values collected in the field.

APPENDIX B

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

June 04, 2019

Danny Margarit
Carlson McCain
3890 Pheasant Ridge Drive NE
Minneapolis, MN 55449

RE: Project: Pine City Airport
Pace Project No.: 10475470

Dear Danny Margarit:
Enclosed are the analytical results for sample(s) received by the laboratory on May 17, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Soltani
tina.soltani@pacelabs.com
(612)607-6384
Project Manager

Enclosures

cc: John Lichter, Carlson McCain

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: Pine City Airport
Pace Project No.: 10475470

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

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(612)607-1700

SAMPLE SUMMARY

Project: Pine City Airport
Pace Project No.: 10475470

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10475470001	**DP-1 (1-3')**	Solid	05/17/19 08:43	05/17/19 18:20
10475470002	**DP-2 (1-2')**	Solid	05/17/19 13:30	05/17/19 18:20
10475470003	**DP-3 (1-3')**	Solid	05/17/19 11:39	05/17/19 18:20
10475470004	**DP-4 (1-3')**	Solid	05/17/19 12:17	05/17/19 18:20
10475470005	**DP-5 (3-5')**	Solid	05/17/19 10:39	05/17/19 18:20
10475470006	**DP-6 (3-5')**	Solid	05/17/19 10:26	05/17/19 18:20
10475470007	**DP-7 (4-6')**	Solid	05/17/19 11:19	05/17/19 18:20
10475470008	**DP-8 (5-7')**	Solid	05/17/19 12:58	05/17/19 18:20
10475470009	**MWGW**	Water	05/17/19 14:20	05/17/19 18:20
10475470010	**DP-1 GW**	Water	05/17/19 08:55	05/17/19 18:20
10475470011	**DP-2 GW**	Water	05/17/19 13:37	05/17/19 18:20
10475470012	**DP-3 GW**	Water	05/17/19 11:57	05/17/19 18:20
10475470013	**DP-4 GW**	Water	05/17/19 12:26	05/17/19 18:20
10475470014	**DP-5 GW**	Water	05/17/19 10:45	05/17/19 18:20
10475470015	**DP-8 GW**	Water	05/17/19 13:07	05/17/19 18:20
10475470016	**SP-1**	Solid	05/17/19 15:00	05/17/19 18:20
10475470017	**SP-2**	Solid	05/17/19 15:19	05/17/19 18:20
10475470018	**SP-3**	Solid	05/17/19 15:42	05/17/19 18:20
10475470019	**SP-4**	Solid	05/17/19 15:58	05/17/19 18:20
10475470020	**SP-5**	Solid	05/17/19 16:19	05/17/19 18:20
10475470021	**SP-6**	Solid	05/17/19 16:44	05/17/19 18:20
10475470022	**SL-Trip Blank**	Solid	05/17/19 00:00	05/17/19 18:20
10475470023	**WT-Trip Blank**	Water	05/17/19 00:00	05/17/19 18:20

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SAMPLE ANALYTE COUNT

Project: Pine City Airport
Pace Project No.: 10475470

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10475470001	**DP-1 (1-3')**	WI MOD DRO	JVM	2	PASI-M
		WI MOD GRO	AJR	2	PASI-M
		EPA 6010D	BD1	7	PASI-M
		EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	SNG	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10475470002	**DP-2 (1-2')**	WI MOD DRO	JVM	2	PASI-M
		WI MOD GRO	AJR	2	PASI-M
		EPA 6010D	BD1	7	PASI-M
		EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	SNG	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10475470003	**DP-3 (1-3')**	WI MOD DRO	JVM	2	PASI-M
		WI MOD GRO	AJR	2	PASI-M
		EPA 6010D	BD1	7	PASI-M
		EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	SNG	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10475470004	**DP-4 (1-3')**	WI MOD DRO	JVM	2	PASI-M
		WI MOD GRO	AJR	2	PASI-M
		EPA 6010D	BD1	7	PASI-M
		EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	SNG	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10475470005	**DP-5 (3-5')**	WI MOD DRO	JVM	2	PASI-M
		WI MOD GRO	AJR	2	PASI-M
		EPA 6010D	BD1	7	PASI-M
		EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	SNG	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10475470006	**DP-6 (3-5')**	WI MOD DRO	JVM	2	PASI-M
		WI MOD GRO	AJR	2	PASI-M

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SAMPLE ANALYTE COUNT

Project: Pine City Airport
Pace Project No.: 10475470

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010D	BD1	7	PASI-M
		EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	SNG	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10475470007	**DP-7 (4-6')**	WI MOD DRO	JVM	2	PASI-M
		WI MOD GRO	AJR	2	PASI-M
		EPA 6010D	BD1	7	PASI-M
		EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	SNG	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10475470008	**DP-8 (5-7')**	WI MOD DRO	JVM	2	PASI-M
		WI MOD GRO	AJR, AMC	2	PASI-M
		EPA 6010D	BD1	7	PASI-M
		EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	SNG	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10475470009	**MWGW**	WI MOD DRO	JVM	2	PASI-M
		WI MOD GRO	AMC	2	PASI-M
		EPA 6010D	DM	7	PASI-M
		EPA 7470A	LMW	1	PASI-M
		EPA 8270D by SIM	SNG	18	PASI-M
		EPA 8260B	AEZ	70	PASI-M
10475470010	**DP-1 GW**	WI MOD DRO	JVM	2	PASI-M
		WI MOD GRO	AMC	2	PASI-M
		EPA 6010D	DM	7	PASI-M
		EPA 7470A	LMW	1	PASI-M
		EPA 8270D by SIM	SNG	18	PASI-M
		EPA 8260B	MJD	70	PASI-M
10475470011	**DP-2 GW**	WI MOD DRO	JVM	2	PASI-M
		WI MOD GRO	AMC	2	PASI-M
		EPA 6010D	DM	7	PASI-M
		EPA 7470A	LMW	1	PASI-M
		EPA 8270D by SIM	SNG	18	PASI-M
		EPA 8260B	MJD	70	PASI-M

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SAMPLE ANALYTE COUNT

Project: Pine City Airport
Pace Project No.: 10475470

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10475470012	**DP-3 GW**	WI MOD DRO	JVM	2	PASI-M
		WI MOD GRO	AMC	2	PASI-M
		EPA 6010D	DM	7	PASI-M
		EPA 7470A	LMW	1	PASI-M
		EPA 8270D by SIM	SNG	18	PASI-M
		EPA 8260B	MJD	70	PASI-M
10475470013	**DP-4 GW**	WI MOD DRO	JVM	2	PASI-M
		WI MOD GRO	AMC	2	PASI-M
		EPA 6010D	DM	7	PASI-M
		EPA 7470A	LMW	1	PASI-M
		EPA 8270D by SIM	SNG	18	PASI-M
		EPA 8260B	MJD	70	PASI-M
10475470014	**DP-5 GW**	WI MOD DRO	JVM	2	PASI-M
		WI MOD GRO	AMC	2	PASI-M
		EPA 6010D	DM	7	PASI-M
		EPA 7470A	LMW	1	PASI-M
		EPA 8270D by SIM	SNG	18	PASI-M
		EPA 8260B	MJD	70	PASI-M
10475470015	**DP-8 GW**	WI MOD DRO	JVM	2	PASI-M
		WI MOD GRO	AMC	2	PASI-M
		EPA 6010D	DM	7	PASI-M
		EPA 7470A	LMW	1	PASI-M
		EPA 8270D by SIM	SNG	18	PASI-M
		EPA 8260B	MJD	70	PASI-M
10475470016	**SP-1**	WI MOD DRO	JVM	2	PASI-M
		WI MOD GRO	AJR, AMC	2	PASI-M
		EPA 6010D	BD1	7	PASI-M
		EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	SNG	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10475470017	**SP-2**	WI MOD DRO	JVM	2	PASI-M
		WI MOD GRO	AJR, AMC	2	PASI-M
		EPA 6010D	BD1	7	PASI-M
		EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	SNG	18	PASI-M

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SAMPLE ANALYTE COUNT

Project: Pine City Airport
Pace Project No.: 10475470

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260B	CD2	70	PASI-M
10475470018	**SP-3**	WI MOD DRO	JVM	2	PASI-M
		WI MOD GRO	AJR, AMC	2	PASI-M
		EPA 6010D	BD1	7	PASI-M
		EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	SNG	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10475470019	**SP-4**	WI MOD DRO	JVM	2	PASI-M
		WI MOD GRO	AJR, AMC	2	PASI-M
		EPA 6010D	BD1	7	PASI-M
		EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	SNG	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10475470020	**SP-5**	WI MOD DRO	JVM	2	PASI-M
		WI MOD GRO	AJR, AMC	2	PASI-M
		EPA 6010D	BD1	7	PASI-M
		EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	SNG	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10475470021	**SP-6**	WI MOD DRO	JVM	2	PASI-M
		WI MOD GRO	AJR, AMC	2	PASI-M
		EPA 6010D	BD1	7	PASI-M
		EPA 7471B	BTS	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	SNG	18	PASI-M
		EPA 8260B	CD2	70	PASI-M
10475470022	**SL-Trip Blank**	WI MOD GRO	AJR, AMC	2	PASI-M
		EPA 8260B	CD2	70	PASI-M
10475470023	**WT-Trip Blank**	WI MOD GRO	AMC	2	PASI-M
		EPA 8260B	AEZ	70	PASI-M

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: DP-1 (1-3') **Lab ID: 10475470001** Collected: 05/17/19 08:43 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Silica Gel	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
WDRO C10-C28	ND	mg/kg	8.9	1	05/21/19 20:00	05/23/19 23:28		
Surrogates								
n-Triacontane (S)	79	%.	44-143	1	05/21/19 20:00	05/23/19 23:28	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil							
Gasoline Range Organics	ND	mg/kg	12.2	1	05/28/19 13:20	05/29/19 14:24		
Surrogates								
a,a,a-Trifluorotoluene (S)	99	%.	80-150	1	05/28/19 13:20	05/29/19 14:24	98-08-8	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050							
Arsenic	**2.2**	mg/kg	1.1	1	05/24/19 15:14	05/28/19 11:40	7440-38-2	
Barium	**40.1**	mg/kg	0.56	1	05/24/19 15:14	05/28/19 11:40	7440-39-3	
Cadmium	ND	mg/kg	0.17	1	05/24/19 15:14	05/28/19 11:40	7440-43-9	
Chromium	**17.5**	mg/kg	0.56	1	05/24/19 15:14	05/28/19 11:40	7440-47-3	
Lead	**5.9**	mg/kg	0.56	1	05/24/19 15:14	05/28/19 11:40	7439-92-1	
Selenium	ND	mg/kg	1.1	1	05/24/19 15:14	05/28/19 11:40	7782-49-2	
Silver	ND	mg/kg	0.56	1	05/24/19 15:14	05/28/19 11:40	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B							
Mercury	ND	mg/kg	0.023	1	05/24/19 16:31	05/28/19 12:00	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974							
Percent Moisture	**14.7**	%	0.10	1		05/24/19 12:42		
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550							
Acenaphthene	ND	ug/kg	11.7	1	05/22/19 08:38	05/25/19 18:28	83-32-9	
Acenaphthylene	ND	ug/kg	11.7	1	05/22/19 08:38	05/25/19 18:28	208-96-8	
Anthracene	ND	ug/kg	11.7	1	05/22/19 08:38	05/25/19 18:28	120-12-7	
Benzo(a)anthracene	ND	ug/kg	11.7	1	05/22/19 08:38	05/25/19 18:28	56-55-3	
Benzo(a)pyrene	ND	ug/kg	11.7	1	05/22/19 08:38	05/25/19 18:28	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	11.7	1	05/22/19 08:38	05/25/19 18:28	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	11.7	1	05/22/19 08:38	05/25/19 18:28	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	11.7	1	05/22/19 08:38	05/25/19 18:28	207-08-9	
Chrysene	ND	ug/kg	11.7	1	05/22/19 08:38	05/25/19 18:28	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	11.7	1	05/22/19 08:38	05/25/19 18:28	53-70-3	
Fluoranthene	ND	ug/kg	11.7	1	05/22/19 08:38	05/25/19 18:28	206-44-0	
Fluorene	ND	ug/kg	11.7	1	05/22/19 08:38	05/25/19 18:28	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	11.7	1	05/22/19 08:38	05/25/19 18:28	193-39-5	
Naphthalene	ND	ug/kg	11.7	1	05/22/19 08:38	05/25/19 18:28	91-20-3	
Phenanthrene	ND	ug/kg	11.7	1	05/22/19 08:38	05/25/19 18:28	85-01-8	
Pyrene	ND	ug/kg	11.7	1	05/22/19 08:38	05/25/19 18:28	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	60	%.	30-125	1	05/22/19 08:38	05/25/19 18:28	321-60-8	
p-Terphenyl-d14 (S)	70	%.	30-125	1	05/22/19 08:38	05/25/19 18:28	1718-51-0	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: DP-1 (1-3') **Lab ID: 10475470001** Collected: 05/17/19 08:43 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Acetone	ND	ug/kg	1160	1	05/24/19 16:10	05/25/19 12:27	67-64-1	
Allyl chloride	ND	ug/kg	233	1	05/24/19 16:10	05/25/19 12:27	107-05-1	
Benzene	ND	ug/kg	23.3	1	05/24/19 16:10	05/25/19 12:27	71-43-2	
Bromobenzene	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	108-86-1	
Bromochloromethane	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	74-97-5	
Bromodichloromethane	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	75-27-4	
Bromoform	ND	ug/kg	233	1	05/24/19 16:10	05/25/19 12:27	75-25-2	
Bromomethane	ND	ug/kg	582	1	05/24/19 16:10	05/25/19 12:27	74-83-9	
2-Butanone (MEK)	ND	ug/kg	291	1	05/24/19 16:10	05/25/19 12:27	78-93-3	
n-Butylbenzene	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	104-51-8	
sec-Butylbenzene	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	135-98-8	
tert-Butylbenzene	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	98-06-6	
Carbon tetrachloride	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	56-23-5	
Chlorobenzene	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	108-90-7	
Chloroethane	ND	ug/kg	582	1	05/24/19 16:10	05/25/19 12:27	75-00-3	
Chloroform	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	67-66-3	
Chloromethane	ND	ug/kg	233	1	05/24/19 16:10	05/25/19 12:27	74-87-3	
2-Chlorotoluene	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	95-49-8	
4-Chlorotoluene	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	582	1	05/24/19 16:10	05/25/19 12:27	96-12-8	
Dibromochloromethane	ND	ug/kg	233	1	05/24/19 16:10	05/25/19 12:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	106-93-4	
Dibromomethane	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	233	1	05/24/19 16:10	05/25/19 12:27	75-71-8	
1,1-Dichloroethane	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	75-34-3	
1,2-Dichloroethane	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	107-06-2	
1,1-Dichloroethene	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	156-60-5	
Dichlorofluoromethane	ND	ug/kg	582	1	05/24/19 16:10	05/25/19 12:27	75-43-4	N2
1,2-Dichloropropane	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	78-87-5	
1,3-Dichloropropane	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	142-28-9	
2,2-Dichloropropane	ND	ug/kg	233	1	05/24/19 16:10	05/25/19 12:27	594-20-7	
1,1-Dichloropropene	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	233	1	05/24/19 16:10	05/25/19 12:27	60-29-7	
Ethylbenzene	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	291	1	05/24/19 16:10	05/25/19 12:27	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	98-82-8	
p-Isopropyltoluene	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	99-87-6	
Methylene Chloride	ND	ug/kg	233	1	05/24/19 16:10	05/25/19 12:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	291	1	05/24/19 16:10	05/25/19 12:27	108-10-1	

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Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: DP-1 (1-3') **Lab ID: 10475470001** Collected: 05/17/19 08:43 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B	Preparation Method: EPA 5035/5030B						
Methyl-tert-butyl ether	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	1634-04-4	
Naphthalene	ND	ug/kg	233	1	05/24/19 16:10	05/25/19 12:27	91-20-3	
n-Propylbenzene	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	103-65-1	
Styrene	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	79-34-5	
Tetrachloroethene	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	127-18-4	
Tetrahydrofuran	ND	ug/kg	2330	1	05/24/19 16:10	05/25/19 12:27	109-99-9	
Toluene	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	79-00-5	
Trichloroethene	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	79-01-6	
Trichlorofluoromethane	ND	ug/kg	233	1	05/24/19 16:10	05/25/19 12:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	233	1	05/24/19 16:10	05/25/19 12:27	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	233	1	05/24/19 16:10	05/25/19 12:27	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	58.2	1	05/24/19 16:10	05/25/19 12:27	108-67-8	
Vinyl chloride	ND	ug/kg	23.3	1	05/24/19 16:10	05/25/19 12:27	75-01-4	
Xylene (Total)	ND	ug/kg	175	1	05/24/19 16:10	05/25/19 12:27	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%.	75-125	1	05/24/19 16:10	05/25/19 12:27	17060-07-0	
Toluene-d8 (S)	97	%.	75-125	1	05/24/19 16:10	05/25/19 12:27	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	75-125	1	05/24/19 16:10	05/25/19 12:27	460-00-4	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: DP-2 (1-2') **Lab ID: 10475470002** Collected: 05/17/19 13:30 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Silica Gel	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
WDRO C10-C28	ND	mg/kg	7.7	1	05/21/19 20:00	05/23/19 23:21		
Surrogates								
n-Triacontane (S)	81	%.	44-143	1	05/21/19 20:00	05/23/19 23:21	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil							
Gasoline Range Organics	ND	mg/kg	11.6	1	05/28/19 13:20	05/29/19 14:50		
Surrogates								
a,a,a-Trifluorotoluene (S)	99	%.	80-150	1	05/28/19 13:20	05/29/19 14:50	98-08-8	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050							
Arsenic	**1.9**	mg/kg	1.1	1	05/24/19 15:14	05/28/19 11:42	7440-38-2	
Barium	**42.7**	mg/kg	0.55	1	05/24/19 15:14	05/28/19 11:42	7440-39-3	
Cadmium	ND	mg/kg	0.16	1	05/24/19 15:14	05/28/19 11:42	7440-43-9	
Chromium	**15.7**	mg/kg	0.55	1	05/24/19 15:14	05/28/19 11:42	7440-47-3	
Lead	**2.9**	mg/kg	0.55	1	05/24/19 15:14	05/28/19 11:42	7439-92-1	
Selenium	ND	mg/kg	1.1	1	05/24/19 15:14	05/28/19 11:42	7782-49-2	
Silver	ND	mg/kg	0.55	1	05/24/19 15:14	05/28/19 11:42	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B							
Mercury	ND	mg/kg	0.020	1	05/24/19 16:31	05/28/19 12:02	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974							
Percent Moisture	**12.1**	%	0.10	1		05/24/19 12:42		
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550							
Acenaphthene	ND	ug/kg	11.4	1	05/22/19 08:38	05/25/19 18:53	83-32-9	
Acenaphthylene	ND	ug/kg	11.4	1	05/22/19 08:38	05/25/19 18:53	208-96-8	
Anthracene	ND	ug/kg	11.4	1	05/22/19 08:38	05/25/19 18:53	120-12-7	
Benzo(a)anthracene	ND	ug/kg	11.4	1	05/22/19 08:38	05/25/19 18:53	56-55-3	
Benzo(a)pyrene	ND	ug/kg	11.4	1	05/22/19 08:38	05/25/19 18:53	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	11.4	1	05/22/19 08:38	05/25/19 18:53	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	11.4	1	05/22/19 08:38	05/25/19 18:53	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	11.4	1	05/22/19 08:38	05/25/19 18:53	207-08-9	
Chrysene	ND	ug/kg	11.4	1	05/22/19 08:38	05/25/19 18:53	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	11.4	1	05/22/19 08:38	05/25/19 18:53	53-70-3	
Fluoranthene	ND	ug/kg	11.4	1	05/22/19 08:38	05/25/19 18:53	206-44-0	
Fluorene	ND	ug/kg	11.4	1	05/22/19 08:38	05/25/19 18:53	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	11.4	1	05/22/19 08:38	05/25/19 18:53	193-39-5	
Naphthalene	ND	ug/kg	11.4	1	05/22/19 08:38	05/25/19 18:53	91-20-3	
Phenanthrene	ND	ug/kg	11.4	1	05/22/19 08:38	05/25/19 18:53	85-01-8	
Pyrene	ND	ug/kg	11.4	1	05/22/19 08:38	05/25/19 18:53	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	64	%.	30-125	1	05/22/19 08:38	05/25/19 18:53	321-60-8	
p-Terphenyl-d14 (S)	75	%.	30-125	1	05/22/19 08:38	05/25/19 18:53	1718-51-0	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: DP-2 (1-2') **Lab ID: 10475470002** Collected: 05/17/19 13:30 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Acetone	ND	ug/kg	1100	1	05/24/19 16:10	05/25/19 15:02	67-64-1	
Allyl chloride	ND	ug/kg	219	1	05/24/19 16:10	05/25/19 15:02	107-05-1	
Benzene	ND	ug/kg	21.9	1	05/24/19 16:10	05/25/19 15:02	71-43-2	
Bromobenzene	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	108-86-1	
Bromochloromethane	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	74-97-5	
Bromodichloromethane	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	75-27-4	
Bromoform	ND	ug/kg	219	1	05/24/19 16:10	05/25/19 15:02	75-25-2	
Bromomethane	ND	ug/kg	548	1	05/24/19 16:10	05/25/19 15:02	74-83-9	
2-Butanone (MEK)	ND	ug/kg	274	1	05/24/19 16:10	05/25/19 15:02	78-93-3	
n-Butylbenzene	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	104-51-8	
sec-Butylbenzene	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	135-98-8	
tert-Butylbenzene	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	98-06-6	
Carbon tetrachloride	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	56-23-5	
Chlorobenzene	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	108-90-7	
Chloroethane	ND	ug/kg	548	1	05/24/19 16:10	05/25/19 15:02	75-00-3	
Chloroform	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	67-66-3	
Chloromethane	ND	ug/kg	219	1	05/24/19 16:10	05/25/19 15:02	74-87-3	
2-Chlorotoluene	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	95-49-8	
4-Chlorotoluene	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	548	1	05/24/19 16:10	05/25/19 15:02	96-12-8	
Dibromochloromethane	ND	ug/kg	219	1	05/24/19 16:10	05/25/19 15:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	106-93-4	
Dibromomethane	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	219	1	05/24/19 16:10	05/25/19 15:02	75-71-8	
1,1-Dichloroethane	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	75-34-3	
1,2-Dichloroethane	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	107-06-2	
1,1-Dichloroethene	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	156-60-5	
Dichlorofluoromethane	ND	ug/kg	548	1	05/24/19 16:10	05/25/19 15:02	75-43-4	N2
1,2-Dichloropropane	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	78-87-5	
1,3-Dichloropropane	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	142-28-9	
2,2-Dichloropropane	ND	ug/kg	219	1	05/24/19 16:10	05/25/19 15:02	594-20-7	
1,1-Dichloropropene	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	219	1	05/24/19 16:10	05/25/19 15:02	60-29-7	
Ethylbenzene	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	274	1	05/24/19 16:10	05/25/19 15:02	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	98-82-8	
p-Isopropyltoluene	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	99-87-6	
Methylene Chloride	ND	ug/kg	219	1	05/24/19 16:10	05/25/19 15:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	274	1	05/24/19 16:10	05/25/19 15:02	108-10-1	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: DP-2 (1-2') **Lab ID: 10475470002** Collected: 05/17/19 13:30 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B	Preparation Method: EPA 5035/5030B						
Methyl-tert-butyl ether	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	1634-04-4	
Naphthalene	ND	ug/kg	219	1	05/24/19 16:10	05/25/19 15:02	91-20-3	
n-Propylbenzene	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	103-65-1	
Styrene	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	79-34-5	
Tetrachloroethene	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	127-18-4	
Tetrahydrofuran	ND	ug/kg	2190	1	05/24/19 16:10	05/25/19 15:02	109-99-9	
Toluene	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	79-00-5	
Trichloroethene	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	79-01-6	
Trichlorofluoromethane	ND	ug/kg	219	1	05/24/19 16:10	05/25/19 15:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	219	1	05/24/19 16:10	05/25/19 15:02	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	219	1	05/24/19 16:10	05/25/19 15:02	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	54.8	1	05/24/19 16:10	05/25/19 15:02	108-67-8	
Vinyl chloride	ND	ug/kg	21.9	1	05/24/19 16:10	05/25/19 15:02	75-01-4	
Xylene (Total)	ND	ug/kg	164	1	05/24/19 16:10	05/25/19 15:02	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%.	75-125	1	05/24/19 16:10	05/25/19 15:02	17060-07-0	
Toluene-d8 (S)	97	%.	75-125	1	05/24/19 16:10	05/25/19 15:02	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125	1	05/24/19 16:10	05/25/19 15:02	460-00-4	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: DP-3 (1-3') **Lab ID: 10475470003** Collected: 05/17/19 11:39 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Silica Gel	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
WDRO C10-C28	ND	mg/kg	9.6	1	05/21/19 20:00	05/24/19 00:01		
Surrogates								
n-Triacontane (S)	95	%.	44-143	1	05/21/19 20:00	05/24/19 00:01	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil							
Gasoline Range Organics	ND	mg/kg	11.6	1	05/28/19 13:20	05/30/19 02:12		
Surrogates								
a,a,a-Trifluorotoluene (S)	97	%.	80-150	1	05/28/19 13:20	05/30/19 02:12	98-08-8	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050							
Arsenic	**2.1**	mg/kg	1.1	1	05/24/19 15:14	05/28/19 11:43	7440-38-2	
Barium	**37.2**	mg/kg	0.53	1	05/24/19 15:14	05/28/19 11:43	7440-39-3	
Cadmium	ND	mg/kg	0.16	1	05/24/19 15:14	05/28/19 11:43	7440-43-9	
Chromium	**13.6**	mg/kg	0.53	1	05/24/19 15:14	05/28/19 11:43	7440-47-3	
Lead	**5.9**	mg/kg	0.53	1	05/24/19 15:14	05/28/19 11:43	7439-92-1	
Selenium	ND	mg/kg	1.1	1	05/24/19 15:14	05/28/19 11:43	7782-49-2	
Silver	ND	mg/kg	0.53	1	05/24/19 15:14	05/28/19 11:43	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B							
Mercury	ND	mg/kg	0.021	1	05/24/19 16:31	05/28/19 12:04	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974							
Percent Moisture	**11.5**	%	0.10	1		05/24/19 12:43		
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550							
Acenaphthene	ND	ug/kg	11.3	1	05/22/19 08:38	05/25/19 19:17	83-32-9	
Acenaphthylene	ND	ug/kg	11.3	1	05/22/19 08:38	05/25/19 19:17	208-96-8	
Anthracene	ND	ug/kg	11.3	1	05/22/19 08:38	05/25/19 19:17	120-12-7	
Benzo(a)anthracene	ND	ug/kg	11.3	1	05/22/19 08:38	05/25/19 19:17	56-55-3	
Benzo(a)pyrene	ND	ug/kg	11.3	1	05/22/19 08:38	05/25/19 19:17	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	11.3	1	05/22/19 08:38	05/25/19 19:17	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	11.3	1	05/22/19 08:38	05/25/19 19:17	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	11.3	1	05/22/19 08:38	05/25/19 19:17	207-08-9	
Chrysene	ND	ug/kg	11.3	1	05/22/19 08:38	05/25/19 19:17	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	11.3	1	05/22/19 08:38	05/25/19 19:17	53-70-3	
Fluoranthene	ND	ug/kg	11.3	1	05/22/19 08:38	05/25/19 19:17	206-44-0	
Fluorene	ND	ug/kg	11.3	1	05/22/19 08:38	05/25/19 19:17	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	11.3	1	05/22/19 08:38	05/25/19 19:17	193-39-5	
Naphthalene	ND	ug/kg	11.3	1	05/22/19 08:38	05/25/19 19:17	91-20-3	
Phenanthrene	ND	ug/kg	11.3	1	05/22/19 08:38	05/25/19 19:17	85-01-8	
Pyrene	ND	ug/kg	11.3	1	05/22/19 08:38	05/25/19 19:17	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	56	%.	30-125	1	05/22/19 08:38	05/25/19 19:17	321-60-8	
p-Terphenyl-d14 (S)	72	%.	30-125	1	05/22/19 08:38	05/25/19 19:17	1718-51-0	

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: DP-3 (1-3') **Lab ID: 10475470003** Collected: 05/17/19 11:39 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Acetone	ND	ug/kg	1090	1	05/24/19 16:10	05/25/19 15:23	67-64-1	
Allyl chloride	ND	ug/kg	218	1	05/24/19 16:10	05/25/19 15:23	107-05-1	
Benzene	ND	ug/kg	21.8	1	05/24/19 16:10	05/25/19 15:23	71-43-2	
Bromobenzene	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	108-86-1	
Bromochloromethane	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	74-97-5	
Bromodichloromethane	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	75-27-4	
Bromoform	ND	ug/kg	218	1	05/24/19 16:10	05/25/19 15:23	75-25-2	
Bromomethane	ND	ug/kg	546	1	05/24/19 16:10	05/25/19 15:23	74-83-9	
2-Butanone (MEK)	ND	ug/kg	273	1	05/24/19 16:10	05/25/19 15:23	78-93-3	
n-Butylbenzene	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	104-51-8	
sec-Butylbenzene	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	135-98-8	
tert-Butylbenzene	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	98-06-6	
Carbon tetrachloride	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	56-23-5	
Chlorobenzene	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	108-90-7	
Chloroethane	ND	ug/kg	546	1	05/24/19 16:10	05/25/19 15:23	75-00-3	
Chloroform	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	67-66-3	
Chloromethane	ND	ug/kg	218	1	05/24/19 16:10	05/25/19 15:23	74-87-3	
2-Chlorotoluene	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	95-49-8	
4-Chlorotoluene	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	546	1	05/24/19 16:10	05/25/19 15:23	96-12-8	
Dibromochloromethane	ND	ug/kg	218	1	05/24/19 16:10	05/25/19 15:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	106-93-4	
Dibromomethane	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	218	1	05/24/19 16:10	05/25/19 15:23	75-71-8	
1,1-Dichloroethane	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	75-34-3	
1,2-Dichloroethane	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	107-06-2	
1,1-Dichloroethene	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	156-60-5	
Dichlorofluoromethane	ND	ug/kg	546	1	05/24/19 16:10	05/25/19 15:23	75-43-4	N2
1,2-Dichloropropane	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	78-87-5	
1,3-Dichloropropane	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	142-28-9	
2,2-Dichloropropane	ND	ug/kg	218	1	05/24/19 16:10	05/25/19 15:23	594-20-7	
1,1-Dichloropropene	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	218	1	05/24/19 16:10	05/25/19 15:23	60-29-7	
Ethylbenzene	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	273	1	05/24/19 16:10	05/25/19 15:23	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	98-82-8	
p-Isopropyltoluene	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	99-87-6	
Methylene Chloride	ND	ug/kg	218	1	05/24/19 16:10	05/25/19 15:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	273	1	05/24/19 16:10	05/25/19 15:23	108-10-1	

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Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: DP-3 (1-3') **Lab ID: 10475470003** Collected: 05/17/19 11:39 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B	Preparation Method: EPA 5035/5030B						
Methyl-tert-butyl ether	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	1634-04-4	
Naphthalene	ND	ug/kg	218	1	05/24/19 16:10	05/25/19 15:23	91-20-3	
n-Propylbenzene	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	103-65-1	
Styrene	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	79-34-5	
Tetrachloroethene	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	127-18-4	
Tetrahydrofuran	ND	ug/kg	2180	1	05/24/19 16:10	05/25/19 15:23	109-99-9	
Toluene	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	79-00-5	
Trichloroethene	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	79-01-6	
Trichlorofluoromethane	ND	ug/kg	218	1	05/24/19 16:10	05/25/19 15:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	218	1	05/24/19 16:10	05/25/19 15:23	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	218	1	05/24/19 16:10	05/25/19 15:23	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	54.6	1	05/24/19 16:10	05/25/19 15:23	108-67-8	
Vinyl chloride	ND	ug/kg	21.8	1	05/24/19 16:10	05/25/19 15:23	75-01-4	
Xylene (Total)	ND	ug/kg	164	1	05/24/19 16:10	05/25/19 15:23	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%.	75-125	1	05/24/19 16:10	05/25/19 15:23	17060-07-0	
Toluene-d8 (S)	96	%.	75-125	1	05/24/19 16:10	05/25/19 15:23	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125	1	05/24/19 16:10	05/25/19 15:23	460-00-4	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: DP-4 (1-3') **Lab ID: 10475470004** Collected: 05/17/19 12:17 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Silica Gel	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
WDRO C10-C28	ND	mg/kg	8.6	1	05/21/19 20:00	05/23/19 23:07		
Surrogates								
n-Triacontane (S)	95	%.	44-143	1	05/21/19 20:00	05/23/19 23:07	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil							
Gasoline Range Organics	ND	mg/kg	12.0	1	05/28/19 17:09	05/31/19 08:15		
Surrogates								
a,a,a-Trifluorotoluene (S)	99	%.	80-150	1	05/28/19 17:09	05/31/19 08:15	98-08-8	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050							
Arsenic	**2.8**	mg/kg	1.1	1	05/24/19 15:14	05/28/19 11:45	7440-38-2	
Barium	**61.9**	mg/kg	0.57	1	05/24/19 15:14	05/28/19 11:45	7440-39-3	
Cadmium	ND	mg/kg	0.17	1	05/24/19 15:14	05/28/19 11:45	7440-43-9	
Chromium	**26.9**	mg/kg	0.57	1	05/24/19 15:14	05/28/19 11:45	7440-47-3	
Lead	**4.6**	mg/kg	0.57	1	05/24/19 15:14	05/28/19 11:45	7439-92-1	
Selenium	ND	mg/kg	1.1	1	05/24/19 15:14	05/28/19 11:45	7782-49-2	
Silver	ND	mg/kg	0.57	1	05/24/19 15:14	05/28/19 11:45	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B							
Mercury	ND	mg/kg	0.022	1	05/24/19 16:31	05/28/19 12:10	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974							
Percent Moisture	**16.4**	%	0.10	1		05/24/19 12:43		
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550							
Acenaphthene	ND	ug/kg	11.9	1	05/22/19 08:38	05/25/19 19:41	83-32-9	
Acenaphthylene	ND	ug/kg	11.9	1	05/22/19 08:38	05/25/19 19:41	208-96-8	
Anthracene	ND	ug/kg	11.9	1	05/22/19 08:38	05/25/19 19:41	120-12-7	
Benzo(a)anthracene	ND	ug/kg	11.9	1	05/22/19 08:38	05/25/19 19:41	56-55-3	
Benzo(a)pyrene	ND	ug/kg	11.9	1	05/22/19 08:38	05/25/19 19:41	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	11.9	1	05/22/19 08:38	05/25/19 19:41	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	11.9	1	05/22/19 08:38	05/25/19 19:41	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	11.9	1	05/22/19 08:38	05/25/19 19:41	207-08-9	
Chrysene	ND	ug/kg	11.9	1	05/22/19 08:38	05/25/19 19:41	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	11.9	1	05/22/19 08:38	05/25/19 19:41	53-70-3	
Fluoranthene	ND	ug/kg	11.9	1	05/22/19 08:38	05/25/19 19:41	206-44-0	
Fluorene	ND	ug/kg	11.9	1	05/22/19 08:38	05/25/19 19:41	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	11.9	1	05/22/19 08:38	05/25/19 19:41	193-39-5	
Naphthalene	ND	ug/kg	11.9	1	05/22/19 08:38	05/25/19 19:41	91-20-3	
Phenanthrene	ND	ug/kg	11.9	1	05/22/19 08:38	05/25/19 19:41	85-01-8	
Pyrene	ND	ug/kg	11.9	1	05/22/19 08:38	05/25/19 19:41	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	57	%.	30-125	1	05/22/19 08:38	05/25/19 19:41	321-60-8	
p-Terphenyl-d14 (S)	66	%.	30-125	1	05/22/19 08:38	05/25/19 19:41	1718-51-0	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: DP-4 (1-3') **Lab ID: 10475470004** Collected: 05/17/19 12:17 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Acetone	ND	ug/kg	1180	1	05/24/19 16:10	05/25/19 15:45	67-64-1	
Allyl chloride	ND	ug/kg	237	1	05/24/19 16:10	05/25/19 15:45	107-05-1	
Benzene	ND	ug/kg	23.7	1	05/24/19 16:10	05/25/19 15:45	71-43-2	
Bromobenzene	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	108-86-1	
Bromochloromethane	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	74-97-5	
Bromodichloromethane	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	75-27-4	
Bromoform	ND	ug/kg	237	1	05/24/19 16:10	05/25/19 15:45	75-25-2	
Bromomethane	ND	ug/kg	592	1	05/24/19 16:10	05/25/19 15:45	74-83-9	
2-Butanone (MEK)	ND	ug/kg	296	1	05/24/19 16:10	05/25/19 15:45	78-93-3	
n-Butylbenzene	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	104-51-8	
sec-Butylbenzene	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	135-98-8	
tert-Butylbenzene	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	98-06-6	
Carbon tetrachloride	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	56-23-5	
Chlorobenzene	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	108-90-7	
Chloroethane	ND	ug/kg	592	1	05/24/19 16:10	05/25/19 15:45	75-00-3	
Chloroform	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	67-66-3	
Chloromethane	ND	ug/kg	237	1	05/24/19 16:10	05/25/19 15:45	74-87-3	
2-Chlorotoluene	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	95-49-8	
4-Chlorotoluene	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	592	1	05/24/19 16:10	05/25/19 15:45	96-12-8	
Dibromochloromethane	ND	ug/kg	237	1	05/24/19 16:10	05/25/19 15:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	106-93-4	
Dibromomethane	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	237	1	05/24/19 16:10	05/25/19 15:45	75-71-8	
1,1-Dichloroethane	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	75-34-3	
1,2-Dichloroethane	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	107-06-2	
1,1-Dichloroethene	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	156-60-5	
Dichlorofluoromethane	ND	ug/kg	592	1	05/24/19 16:10	05/25/19 15:45	75-43-4	N2
1,2-Dichloropropane	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	78-87-5	
1,3-Dichloropropane	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	142-28-9	
2,2-Dichloropropane	ND	ug/kg	237	1	05/24/19 16:10	05/25/19 15:45	594-20-7	
1,1-Dichloropropene	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	237	1	05/24/19 16:10	05/25/19 15:45	60-29-7	
Ethylbenzene	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	296	1	05/24/19 16:10	05/25/19 15:45	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	98-82-8	
p-Isopropyltoluene	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	99-87-6	
Methylene Chloride	ND	ug/kg	237	1	05/24/19 16:10	05/25/19 15:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	296	1	05/24/19 16:10	05/25/19 15:45	108-10-1	

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Minneapolis, MN 55414
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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: DP-4 (1-3') **Lab ID: 10475470004** Collected: 05/17/19 12:17 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B	Preparation Method: EPA 5035/5030B						
Methyl-tert-butyl ether	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	1634-04-4	
Naphthalene	ND	ug/kg	237	1	05/24/19 16:10	05/25/19 15:45	91-20-3	
n-Propylbenzene	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	103-65-1	
Styrene	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	79-34-5	
Tetrachloroethene	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	127-18-4	
Tetrahydrofuran	ND	ug/kg	2370	1	05/24/19 16:10	05/25/19 15:45	109-99-9	
Toluene	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	79-00-5	
Trichloroethene	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	79-01-6	
Trichlorofluoromethane	ND	ug/kg	237	1	05/24/19 16:10	05/25/19 15:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	237	1	05/24/19 16:10	05/25/19 15:45	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	237	1	05/24/19 16:10	05/25/19 15:45	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	59.2	1	05/24/19 16:10	05/25/19 15:45	108-67-8	
Vinyl chloride	ND	ug/kg	23.7	1	05/24/19 16:10	05/25/19 15:45	75-01-4	
Xylene (Total)	ND	ug/kg	177	1	05/24/19 16:10	05/25/19 15:45	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%.	75-125	1	05/24/19 16:10	05/25/19 15:45	17060-07-0	
Toluene-d8 (S)	96	%.	75-125	1	05/24/19 16:10	05/25/19 15:45	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125	1	05/24/19 16:10	05/25/19 15:45	460-00-4	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: DP-5 (3-5') **Lab ID: 10475470005** Collected: 05/17/19 10:39 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Silica Gel	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
WDRO C10-C28	ND	mg/kg	9.0	1	05/21/19 20:00	05/24/19 00:07		
Surrogates								
n-Triacontane (S)	87	%.	44-143	1	05/21/19 20:00	05/24/19 00:07	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil							
Gasoline Range Organics	ND	mg/kg	10.8	1	05/28/19 17:09	05/31/19 09:08		
Surrogates								
a,a,a-Trifluorotoluene (S)	99	%.	80-150	1	05/28/19 17:09	05/31/19 09:08	98-08-8	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050							
Arsenic	**2.5**	mg/kg	1.1	1	05/24/19 15:14	05/28/19 11:47	7440-38-2	
Barium	**33.2**	mg/kg	0.55	1	05/24/19 15:14	05/28/19 11:47	7440-39-3	
Cadmium	ND	mg/kg	0.16	1	05/24/19 15:14	05/28/19 11:47	7440-43-9	
Chromium	**16.6**	mg/kg	0.55	1	05/24/19 15:14	05/28/19 11:47	7440-47-3	
Lead	**2.6**	mg/kg	0.55	1	05/24/19 15:14	05/28/19 11:47	7439-92-1	
Selenium	ND	mg/kg	1.1	1	05/24/19 15:14	05/28/19 11:47	7782-49-2	
Silver	ND	mg/kg	0.55	1	05/24/19 15:14	05/28/19 11:47	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B							
Mercury	ND	mg/kg	0.022	1	05/24/19 16:31	05/28/19 12:12	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974							
Percent Moisture	**11.3**	%	0.10	1		05/24/19 12:43		
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550							
Acenaphthene	ND	ug/kg	11.3	1	05/22/19 08:38	05/25/19 20:06	83-32-9	
Acenaphthylene	ND	ug/kg	11.3	1	05/22/19 08:38	05/25/19 20:06	208-96-8	
Anthracene	ND	ug/kg	11.3	1	05/22/19 08:38	05/25/19 20:06	120-12-7	
Benzo(a)anthracene	ND	ug/kg	11.3	1	05/22/19 08:38	05/25/19 20:06	56-55-3	
Benzo(a)pyrene	ND	ug/kg	11.3	1	05/22/19 08:38	05/25/19 20:06	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	11.3	1	05/22/19 08:38	05/25/19 20:06	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	11.3	1	05/22/19 08:38	05/25/19 20:06	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	11.3	1	05/22/19 08:38	05/25/19 20:06	207-08-9	
Chrysene	ND	ug/kg	11.3	1	05/22/19 08:38	05/25/19 20:06	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	11.3	1	05/22/19 08:38	05/25/19 20:06	53-70-3	
Fluoranthene	ND	ug/kg	11.3	1	05/22/19 08:38	05/25/19 20:06	206-44-0	
Fluorene	ND	ug/kg	11.3	1	05/22/19 08:38	05/25/19 20:06	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	11.3	1	05/22/19 08:38	05/25/19 20:06	193-39-5	
Naphthalene	ND	ug/kg	11.3	1	05/22/19 08:38	05/25/19 20:06	91-20-3	
Phenanthrene	ND	ug/kg	11.3	1	05/22/19 08:38	05/25/19 20:06	85-01-8	
Pyrene	ND	ug/kg	11.3	1	05/22/19 08:38	05/25/19 20:06	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	58	%.	30-125	1	05/22/19 08:38	05/25/19 20:06	321-60-8	
p-Terphenyl-d14 (S)	71	%.	30-125	1	05/22/19 08:38	05/25/19 20:06	1718-51-0	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: DP-5 (3-5') **Lab ID: 10475470005** Collected: 05/17/19 10:39 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Acetone	ND	ug/kg	1100	1	05/24/19 16:10	05/25/19 16:06	67-64-1	
Allyl chloride	ND	ug/kg	220	1	05/24/19 16:10	05/25/19 16:06	107-05-1	
Benzene	ND	ug/kg	22.0	1	05/24/19 16:10	05/25/19 16:06	71-43-2	
Bromobenzene	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	108-86-1	
Bromochloromethane	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	74-97-5	
Bromodichloromethane	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	75-27-4	
Bromoform	ND	ug/kg	220	1	05/24/19 16:10	05/25/19 16:06	75-25-2	
Bromomethane	ND	ug/kg	550	1	05/24/19 16:10	05/25/19 16:06	74-83-9	
2-Butanone (MEK)	ND	ug/kg	275	1	05/24/19 16:10	05/25/19 16:06	78-93-3	
n-Butylbenzene	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	104-51-8	
sec-Butylbenzene	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	135-98-8	
tert-Butylbenzene	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	98-06-6	
Carbon tetrachloride	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	56-23-5	
Chlorobenzene	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	108-90-7	
Chloroethane	ND	ug/kg	550	1	05/24/19 16:10	05/25/19 16:06	75-00-3	
Chloroform	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	67-66-3	
Chloromethane	ND	ug/kg	220	1	05/24/19 16:10	05/25/19 16:06	74-87-3	
2-Chlorotoluene	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	95-49-8	
4-Chlorotoluene	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	550	1	05/24/19 16:10	05/25/19 16:06	96-12-8	
Dibromochloromethane	ND	ug/kg	220	1	05/24/19 16:10	05/25/19 16:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	106-93-4	
Dibromomethane	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	220	1	05/24/19 16:10	05/25/19 16:06	75-71-8	
1,1-Dichloroethane	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	75-34-3	
1,2-Dichloroethane	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	107-06-2	
1,1-Dichloroethene	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	156-60-5	
Dichlorofluoromethane	ND	ug/kg	550	1	05/24/19 16:10	05/25/19 16:06	75-43-4	N2
1,2-Dichloropropane	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	78-87-5	
1,3-Dichloropropane	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	142-28-9	
2,2-Dichloropropane	ND	ug/kg	220	1	05/24/19 16:10	05/25/19 16:06	594-20-7	
1,1-Dichloropropene	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	220	1	05/24/19 16:10	05/25/19 16:06	60-29-7	
Ethylbenzene	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	275	1	05/24/19 16:10	05/25/19 16:06	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	98-82-8	
p-Isopropyltoluene	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	99-87-6	
Methylene Chloride	ND	ug/kg	220	1	05/24/19 16:10	05/25/19 16:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	275	1	05/24/19 16:10	05/25/19 16:06	108-10-1	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: DP-5 (3-5') **Lab ID: 10475470005** Collected: 05/17/19 10:39 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B	Preparation Method: EPA 5035/5030B						
Methyl-tert-butyl ether	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	1634-04-4	
Naphthalene	ND	ug/kg	220	1	05/24/19 16:10	05/25/19 16:06	91-20-3	
n-Propylbenzene	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	103-65-1	
Styrene	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	79-34-5	
Tetrachloroethene	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	127-18-4	
Tetrahydrofuran	ND	ug/kg	2200	1	05/24/19 16:10	05/25/19 16:06	109-99-9	
Toluene	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	79-00-5	
Trichloroethene	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	79-01-6	
Trichlorofluoromethane	ND	ug/kg	220	1	05/24/19 16:10	05/25/19 16:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	220	1	05/24/19 16:10	05/25/19 16:06	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	220	1	05/24/19 16:10	05/25/19 16:06	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	55.0	1	05/24/19 16:10	05/25/19 16:06	108-67-8	
Vinyl chloride	ND	ug/kg	22.0	1	05/24/19 16:10	05/25/19 16:06	75-01-4	
Xylene (Total)	ND	ug/kg	165	1	05/24/19 16:10	05/25/19 16:06	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%.	75-125	1	05/24/19 16:10	05/25/19 16:06	17060-07-0	
Toluene-d8 (S)	96	%.	75-125	1	05/24/19 16:10	05/25/19 16:06	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125	1	05/24/19 16:10	05/25/19 16:06	460-00-4	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: DP-6 (3-5') **Lab ID: 10475470006** Collected: 05/17/19 10:26 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Silica Gel	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
WDRO C10-C28	ND	mg/kg	8.6	1	05/21/19 20:00	05/24/19 00:14		
Surrogates								
n-Triacontane (S)	89	%.	44-143	1	05/21/19 20:00	05/24/19 00:14	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil							
Gasoline Range Organics	ND	mg/kg	12.3	1	05/28/19 17:09	05/31/19 08:42		
Surrogates								
a,a,a-Trifluorotoluene (S)	99	%.	80-150	1	05/28/19 17:09	05/31/19 08:42	98-08-8	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050							
Arsenic	**1.9**	mg/kg	1.2	1	05/24/19 15:14	05/28/19 11:57	7440-38-2	
Barium	**34.0**	mg/kg	0.58	1	05/24/19 15:14	05/28/19 11:57	7440-39-3	
Cadmium	ND	mg/kg	0.17	1	05/24/19 15:14	05/28/19 11:57	7440-43-9	
Chromium	**15.4**	mg/kg	0.58	1	05/24/19 15:14	05/28/19 11:57	7440-47-3	
Lead	**3.1**	mg/kg	0.58	1	05/24/19 15:14	05/28/19 11:57	7439-92-1	
Selenium	ND	mg/kg	1.2	1	05/24/19 15:14	05/28/19 11:57	7782-49-2	
Silver	ND	mg/kg	0.58	1	05/24/19 15:14	05/28/19 11:57	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B							
Mercury	ND	mg/kg	0.021	1	05/24/19 16:31	05/28/19 12:14	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974							
Percent Moisture	**16.4**	%	0.10	1		05/24/19 12:43		
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550							
Acenaphthene	ND	ug/kg	11.9	1	05/22/19 08:38	05/25/19 20:30	83-32-9	
Acenaphthylene	ND	ug/kg	11.9	1	05/22/19 08:38	05/25/19 20:30	208-96-8	
Anthracene	ND	ug/kg	11.9	1	05/22/19 08:38	05/25/19 20:30	120-12-7	
Benzo(a)anthracene	ND	ug/kg	11.9	1	05/22/19 08:38	05/25/19 20:30	56-55-3	
Benzo(a)pyrene	ND	ug/kg	11.9	1	05/22/19 08:38	05/25/19 20:30	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	11.9	1	05/22/19 08:38	05/25/19 20:30	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	11.9	1	05/22/19 08:38	05/25/19 20:30	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	11.9	1	05/22/19 08:38	05/25/19 20:30	207-08-9	
Chrysene	ND	ug/kg	11.9	1	05/22/19 08:38	05/25/19 20:30	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	11.9	1	05/22/19 08:38	05/25/19 20:30	53-70-3	
Fluoranthene	ND	ug/kg	11.9	1	05/22/19 08:38	05/25/19 20:30	206-44-0	
Fluorene	ND	ug/kg	11.9	1	05/22/19 08:38	05/25/19 20:30	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	11.9	1	05/22/19 08:38	05/25/19 20:30	193-39-5	
Naphthalene	ND	ug/kg	11.9	1	05/22/19 08:38	05/25/19 20:30	91-20-3	
Phenanthrene	ND	ug/kg	11.9	1	05/22/19 08:38	05/25/19 20:30	85-01-8	
Pyrene	ND	ug/kg	11.9	1	05/22/19 08:38	05/25/19 20:30	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	70	%.	30-125	1	05/22/19 08:38	05/25/19 20:30	321-60-8	
p-Terphenyl-d14 (S)	70	%.	30-125	1	05/22/19 08:38	05/25/19 20:30	1718-51-0	

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: DP-6 (3-5') **Lab ID: 10475470006** Collected: 05/17/19 10:26 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Acetone	ND	ug/kg	1180	1	05/24/19 16:10	05/25/19 16:28	67-64-1	
Allyl chloride	ND	ug/kg	236	1	05/24/19 16:10	05/25/19 16:28	107-05-1	
Benzene	ND	ug/kg	23.6	1	05/24/19 16:10	05/25/19 16:28	71-43-2	
Bromobenzene	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	108-86-1	
Bromochloromethane	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	74-97-5	
Bromodichloromethane	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	75-27-4	
Bromoform	ND	ug/kg	236	1	05/24/19 16:10	05/25/19 16:28	75-25-2	
Bromomethane	ND	ug/kg	591	1	05/24/19 16:10	05/25/19 16:28	74-83-9	
2-Butanone (MEK)	ND	ug/kg	295	1	05/24/19 16:10	05/25/19 16:28	78-93-3	
n-Butylbenzene	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	104-51-8	
sec-Butylbenzene	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	135-98-8	
tert-Butylbenzene	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	98-06-6	
Carbon tetrachloride	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	56-23-5	
Chlorobenzene	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	108-90-7	
Chloroethane	ND	ug/kg	591	1	05/24/19 16:10	05/25/19 16:28	75-00-3	
Chloroform	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	67-66-3	
Chloromethane	ND	ug/kg	236	1	05/24/19 16:10	05/25/19 16:28	74-87-3	
2-Chlorotoluene	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	95-49-8	
4-Chlorotoluene	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	591	1	05/24/19 16:10	05/25/19 16:28	96-12-8	
Dibromochloromethane	ND	ug/kg	236	1	05/24/19 16:10	05/25/19 16:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	106-93-4	
Dibromomethane	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	236	1	05/24/19 16:10	05/25/19 16:28	75-71-8	
1,1-Dichloroethane	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	75-34-3	
1,2-Dichloroethane	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	107-06-2	
1,1-Dichloroethene	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	156-60-5	
Dichlorofluoromethane	ND	ug/kg	591	1	05/24/19 16:10	05/25/19 16:28	75-43-4	N2
1,2-Dichloropropane	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	78-87-5	
1,3-Dichloropropane	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	142-28-9	
2,2-Dichloropropane	ND	ug/kg	236	1	05/24/19 16:10	05/25/19 16:28	594-20-7	
1,1-Dichloropropene	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	236	1	05/24/19 16:10	05/25/19 16:28	60-29-7	
Ethylbenzene	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	295	1	05/24/19 16:10	05/25/19 16:28	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	98-82-8	
p-Isopropyltoluene	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	99-87-6	
Methylene Chloride	ND	ug/kg	236	1	05/24/19 16:10	05/25/19 16:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	295	1	05/24/19 16:10	05/25/19 16:28	108-10-1	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: DP-6 (3-5') **Lab ID: 10475470006** Collected: 05/17/19 10:26 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B	Preparation Method: EPA 5035/5030B						
Methyl-tert-butyl ether	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	1634-04-4	
Naphthalene	ND	ug/kg	236	1	05/24/19 16:10	05/25/19 16:28	91-20-3	
n-Propylbenzene	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	103-65-1	
Styrene	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	79-34-5	
Tetrachloroethene	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	127-18-4	
Tetrahydrofuran	ND	ug/kg	2360	1	05/24/19 16:10	05/25/19 16:28	109-99-9	
Toluene	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	79-00-5	
Trichloroethene	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	79-01-6	
Trichlorofluoromethane	ND	ug/kg	236	1	05/24/19 16:10	05/25/19 16:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	236	1	05/24/19 16:10	05/25/19 16:28	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	236	1	05/24/19 16:10	05/25/19 16:28	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	59.1	1	05/24/19 16:10	05/25/19 16:28	108-67-8	
Vinyl chloride	ND	ug/kg	23.6	1	05/24/19 16:10	05/25/19 16:28	75-01-4	
Xylene (Total)	ND	ug/kg	177	1	05/24/19 16:10	05/25/19 16:28	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%.	75-125	1	05/24/19 16:10	05/25/19 16:28	17060-07-0	
Toluene-d8 (S)	97	%.	75-125	1	05/24/19 16:10	05/25/19 16:28	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	75-125	1	05/24/19 16:10	05/25/19 16:28	460-00-4	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: DP-7 (4-6') **Lab ID: 10475470007** Collected: 05/17/19 11:19 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Silica Gel	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
WDRO C10-C28	ND	mg/kg	8.6	1	05/21/19 20:00	05/24/19 00:21		
Surrogates								
n-Triacontane (S)	86	%.	44-143	1	05/21/19 20:00	05/24/19 00:21	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil							
Gasoline Range Organics	ND	mg/kg	12.0	1	05/29/19 13:51	05/31/19 09:34		
Surrogates								
a,a,a-Trifluorotoluene (S)	99	%.	80-150	1	05/29/19 13:51	05/31/19 09:34	98-08-8	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	5.8	5	05/24/19 15:14	05/28/19 13:08	7440-38-2	D3
Barium	**71.6**	mg/kg	2.9	5	05/24/19 15:14	05/28/19 13:08	7440-39-3	
Cadmium	ND	mg/kg	0.88	5	05/24/19 15:14	05/28/19 13:08	7440-43-9	D3
Chromium	**35.8**	mg/kg	2.9	5	05/24/19 15:14	05/28/19 13:08	7440-47-3	
Lead	**5.1**	mg/kg	2.9	5	05/24/19 15:14	05/28/19 13:08	7439-92-1	
Selenium	ND	mg/kg	5.8	5	05/24/19 15:14	05/28/19 13:08	7782-49-2	D3
Silver	ND	mg/kg	2.9	5	05/24/19 15:14	05/28/19 13:08	7440-22-4	D3
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B							
Mercury	ND	mg/kg	0.022	1	05/24/19 16:31	05/28/19 12:16	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974							
Percent Moisture	**17.7**	%	0.10	1		05/24/19 12:43		
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550							
Acenaphthene	ND	ug/kg	12.1	1	05/22/19 08:38	05/25/19 20:54	83-32-9	
Acenaphthylene	ND	ug/kg	12.1	1	05/22/19 08:38	05/25/19 20:54	208-96-8	
Anthracene	ND	ug/kg	12.1	1	05/22/19 08:38	05/25/19 20:54	120-12-7	
Benzo(a)anthracene	ND	ug/kg	12.1	1	05/22/19 08:38	05/25/19 20:54	56-55-3	
Benzo(a)pyrene	ND	ug/kg	12.1	1	05/22/19 08:38	05/25/19 20:54	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	12.1	1	05/22/19 08:38	05/25/19 20:54	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	12.1	1	05/22/19 08:38	05/25/19 20:54	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	12.1	1	05/22/19 08:38	05/25/19 20:54	207-08-9	
Chrysene	ND	ug/kg	12.1	1	05/22/19 08:38	05/25/19 20:54	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	12.1	1	05/22/19 08:38	05/25/19 20:54	53-70-3	
Fluoranthene	ND	ug/kg	12.1	1	05/22/19 08:38	05/25/19 20:54	206-44-0	
Fluorene	ND	ug/kg	12.1	1	05/22/19 08:38	05/25/19 20:54	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	12.1	1	05/22/19 08:38	05/25/19 20:54	193-39-5	
Naphthalene	ND	ug/kg	12.1	1	05/22/19 08:38	05/25/19 20:54	91-20-3	
Phenanthrene	ND	ug/kg	12.1	1	05/22/19 08:38	05/25/19 20:54	85-01-8	
Pyrene	ND	ug/kg	12.1	1	05/22/19 08:38	05/25/19 20:54	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	70	%.	30-125	1	05/22/19 08:38	05/25/19 20:54	321-60-8	
p-Terphenyl-d14 (S)	70	%.	30-125	1	05/22/19 08:38	05/25/19 20:54	1718-51-0	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: DP-7 (4-6') **Lab ID: 10475470007** Collected: 05/17/19 11:19 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Acetone	ND	ug/kg	1230	1	05/24/19 16:10	05/25/19 16:50	67-64-1	
Allyl chloride	ND	ug/kg	246	1	05/24/19 16:10	05/25/19 16:50	107-05-1	
Benzene	ND	ug/kg	24.6	1	05/24/19 16:10	05/25/19 16:50	71-43-2	
Bromobenzene	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	108-86-1	
Bromochloromethane	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	74-97-5	
Bromodichloromethane	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	75-27-4	
Bromoform	ND	ug/kg	246	1	05/24/19 16:10	05/25/19 16:50	75-25-2	
Bromomethane	ND	ug/kg	615	1	05/24/19 16:10	05/25/19 16:50	74-83-9	
2-Butanone (MEK)	ND	ug/kg	308	1	05/24/19 16:10	05/25/19 16:50	78-93-3	
n-Butylbenzene	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	104-51-8	
sec-Butylbenzene	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	135-98-8	
tert-Butylbenzene	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	98-06-6	
Carbon tetrachloride	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	56-23-5	
Chlorobenzene	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	108-90-7	
Chloroethane	ND	ug/kg	615	1	05/24/19 16:10	05/25/19 16:50	75-00-3	
Chloroform	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	67-66-3	
Chloromethane	ND	ug/kg	246	1	05/24/19 16:10	05/25/19 16:50	74-87-3	
2-Chlorotoluene	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	95-49-8	
4-Chlorotoluene	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	615	1	05/24/19 16:10	05/25/19 16:50	96-12-8	
Dibromochloromethane	ND	ug/kg	246	1	05/24/19 16:10	05/25/19 16:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	106-93-4	
Dibromomethane	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	246	1	05/24/19 16:10	05/25/19 16:50	75-71-8	
1,1-Dichloroethane	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	75-34-3	
1,2-Dichloroethane	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	107-06-2	
1,1-Dichloroethene	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	156-60-5	
Dichlorofluoromethane	ND	ug/kg	615	1	05/24/19 16:10	05/25/19 16:50	75-43-4	N2
1,2-Dichloropropane	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	78-87-5	
1,3-Dichloropropane	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	142-28-9	
2,2-Dichloropropane	ND	ug/kg	246	1	05/24/19 16:10	05/25/19 16:50	594-20-7	
1,1-Dichloropropene	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	246	1	05/24/19 16:10	05/25/19 16:50	60-29-7	
Ethylbenzene	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	308	1	05/24/19 16:10	05/25/19 16:50	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	98-82-8	
p-Isopropyltoluene	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	99-87-6	
Methylene Chloride	ND	ug/kg	246	1	05/24/19 16:10	05/25/19 16:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	308	1	05/24/19 16:10	05/25/19 16:50	108-10-1	

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: DP-7 (4-6') **Lab ID: 10475470007** Collected: 05/17/19 11:19 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B	Preparation Method: EPA 5035/5030B						
Methyl-tert-butyl ether	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	1634-04-4	
Naphthalene	ND	ug/kg	246	1	05/24/19 16:10	05/25/19 16:50	91-20-3	
n-Propylbenzene	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	103-65-1	
Styrene	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	79-34-5	
Tetrachloroethene	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	127-18-4	
Tetrahydrofuran	ND	ug/kg	2460	1	05/24/19 16:10	05/25/19 16:50	109-99-9	
Toluene	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	79-00-5	
Trichloroethene	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	79-01-6	
Trichlorofluoromethane	ND	ug/kg	246	1	05/24/19 16:10	05/25/19 16:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	246	1	05/24/19 16:10	05/25/19 16:50	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	246	1	05/24/19 16:10	05/25/19 16:50	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	61.5	1	05/24/19 16:10	05/25/19 16:50	108-67-8	
Vinyl chloride	ND	ug/kg	24.6	1	05/24/19 16:10	05/25/19 16:50	75-01-4	
Xylene (Total)	ND	ug/kg	185	1	05/24/19 16:10	05/25/19 16:50	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%.	75-125	1	05/24/19 16:10	05/25/19 16:50	17060-07-0	
Toluene-d8 (S)	96	%.	75-125	1	05/24/19 16:10	05/25/19 16:50	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125	1	05/24/19 16:10	05/25/19 16:50	460-00-4	

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(612)607-1700

ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: DP-8 (5-7') **Lab ID: 10475470008** Collected: 05/17/19 12:58 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Silica Gel	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
WDRO C10-C28	ND	mg/kg	8.2	1	05/21/19 20:00	05/23/19 23:14		
Surrogates								
n-Triacontane (S)	85	%.	44-143	1	05/21/19 20:00	05/23/19 23:14	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil							
Gasoline Range Organics	ND	mg/kg	11.7	1	05/28/19 17:09	05/30/19 17:35		
Surrogates								
a,a,a-Trifluorotoluene (S)	99	%.	80-150	1	05/28/19 17:09	05/30/19 17:35	98-08-8	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050							
Arsenic	**2.1**	mg/kg	1.1	1	05/24/19 15:14	05/28/19 12:00	7440-38-2	
Barium	**30.3**	mg/kg	0.54	1	05/24/19 15:14	05/28/19 12:00	7440-39-3	
Cadmium	ND	mg/kg	0.16	1	05/24/19 15:14	05/28/19 12:00	7440-43-9	
Chromium	**19.9**	mg/kg	0.54	1	05/24/19 15:14	05/28/19 12:00	7440-47-3	
Lead	**2.5**	mg/kg	0.54	1	05/24/19 15:14	05/28/19 12:00	7439-92-1	
Selenium	ND	mg/kg	1.1	1	05/24/19 15:14	05/28/19 12:00	7782-49-2	
Silver	ND	mg/kg	0.54	1	05/24/19 15:14	05/28/19 12:00	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B							
Mercury	ND	mg/kg	0.022	1	05/24/19 16:31	05/28/19 12:18	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974							
Percent Moisture	**12.9**	%	0.10	1		05/24/19 12:44		
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550							
Acenaphthene	ND	ug/kg	11.4	1	05/22/19 08:38	05/28/19 10:37	83-32-9	
Acenaphthylene	ND	ug/kg	11.4	1	05/22/19 08:38	05/28/19 10:37	208-96-8	
Anthracene	ND	ug/kg	11.4	1	05/22/19 08:38	05/28/19 10:37	120-12-7	
Benzo(a)anthracene	ND	ug/kg	11.4	1	05/22/19 08:38	05/28/19 10:37	56-55-3	
Benzo(a)pyrene	ND	ug/kg	11.4	1	05/22/19 08:38	05/28/19 10:37	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	11.4	1	05/22/19 08:38	05/28/19 10:37	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	11.4	1	05/22/19 08:38	05/28/19 10:37	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	11.4	1	05/22/19 08:38	05/28/19 10:37	207-08-9	
Chrysene	ND	ug/kg	11.4	1	05/22/19 08:38	05/28/19 10:37	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	11.4	1	05/22/19 08:38	05/28/19 10:37	53-70-3	
Fluoranthene	ND	ug/kg	11.4	1	05/22/19 08:38	05/28/19 10:37	206-44-0	
Fluorene	ND	ug/kg	11.4	1	05/22/19 08:38	05/28/19 10:37	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	11.4	1	05/22/19 08:38	05/28/19 10:37	193-39-5	
Naphthalene	ND	ug/kg	11.4	1	05/22/19 08:38	05/28/19 10:37	91-20-3	
Phenanthrene	ND	ug/kg	11.4	1	05/22/19 08:38	05/28/19 10:37	85-01-8	
Pyrene	ND	ug/kg	11.4	1	05/22/19 08:38	05/28/19 10:37	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	57	%.	30-125	1	05/22/19 08:38	05/28/19 10:37	321-60-8	
p-Terphenyl-d14 (S)	77	%.	30-125	1	05/22/19 08:38	05/28/19 10:37	1718-51-0	

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(612)607-1700

ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: DP-8 (5-7') **Lab ID: 10475470008** Collected: 05/17/19 12:58 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Acetone	ND	ug/kg	1110	1	05/24/19 16:10	05/25/19 17:11	67-64-1	
Allyl chloride	ND	ug/kg	222	1	05/24/19 16:10	05/25/19 17:11	107-05-1	
Benzene	ND	ug/kg	22.2	1	05/24/19 16:10	05/25/19 17:11	71-43-2	
Bromobenzene	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	108-86-1	
Bromochloromethane	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	74-97-5	
Bromodichloromethane	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	75-27-4	
Bromoform	ND	ug/kg	222	1	05/24/19 16:10	05/25/19 17:11	75-25-2	
Bromomethane	ND	ug/kg	555	1	05/24/19 16:10	05/25/19 17:11	74-83-9	
2-Butanone (MEK)	ND	ug/kg	278	1	05/24/19 16:10	05/25/19 17:11	78-93-3	
n-Butylbenzene	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	104-51-8	
sec-Butylbenzene	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	135-98-8	
tert-Butylbenzene	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	98-06-6	
Carbon tetrachloride	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	56-23-5	
Chlorobenzene	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	108-90-7	
Chloroethane	ND	ug/kg	555	1	05/24/19 16:10	05/25/19 17:11	75-00-3	
Chloroform	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	67-66-3	
Chloromethane	ND	ug/kg	222	1	05/24/19 16:10	05/25/19 17:11	74-87-3	
2-Chlorotoluene	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	95-49-8	
4-Chlorotoluene	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	555	1	05/24/19 16:10	05/25/19 17:11	96-12-8	
Dibromochloromethane	ND	ug/kg	222	1	05/24/19 16:10	05/25/19 17:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	106-93-4	
Dibromomethane	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	222	1	05/24/19 16:10	05/25/19 17:11	75-71-8	
1,1-Dichloroethane	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	75-34-3	
1,2-Dichloroethane	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	107-06-2	
1,1-Dichloroethene	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	156-60-5	
Dichlorofluoromethane	ND	ug/kg	555	1	05/24/19 16:10	05/25/19 17:11	75-43-4	N2
1,2-Dichloropropane	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	78-87-5	
1,3-Dichloropropane	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	142-28-9	
2,2-Dichloropropane	ND	ug/kg	222	1	05/24/19 16:10	05/25/19 17:11	594-20-7	
1,1-Dichloropropene	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	222	1	05/24/19 16:10	05/25/19 17:11	60-29-7	
Ethylbenzene	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	278	1	05/24/19 16:10	05/25/19 17:11	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	98-82-8	
p-Isopropyltoluene	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	99-87-6	
Methylene Chloride	ND	ug/kg	222	1	05/24/19 16:10	05/25/19 17:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	278	1	05/24/19 16:10	05/25/19 17:11	108-10-1	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: DP-8 (5-7') **Lab ID: 10475470008** Collected: 05/17/19 12:58 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B	Preparation Method: EPA 5035/5030B						
Methyl-tert-butyl ether	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	1634-04-4	
Naphthalene	ND	ug/kg	222	1	05/24/19 16:10	05/25/19 17:11	91-20-3	
n-Propylbenzene	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	103-65-1	
Styrene	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	79-34-5	
Tetrachloroethene	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	127-18-4	
Tetrahydrofuran	ND	ug/kg	2220	1	05/24/19 16:10	05/25/19 17:11	109-99-9	
Toluene	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	79-00-5	
Trichloroethene	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	79-01-6	
Trichlorofluoromethane	ND	ug/kg	222	1	05/24/19 16:10	05/25/19 17:11	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	222	1	05/24/19 16:10	05/25/19 17:11	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	222	1	05/24/19 16:10	05/25/19 17:11	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	55.5	1	05/24/19 16:10	05/25/19 17:11	108-67-8	
Vinyl chloride	ND	ug/kg	22.2	1	05/24/19 16:10	05/25/19 17:11	75-01-4	
Xylene (Total)	ND	ug/kg	167	1	05/24/19 16:10	05/25/19 17:11	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%.	75-125	1	05/24/19 16:10	05/25/19 17:11	17060-07-0	
Toluene-d8 (S)	96	%.	75-125	1	05/24/19 16:10	05/25/19 17:11	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	75-125	1	05/24/19 16:10	05/25/19 17:11	460-00-4	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: MWGW **Lab ID: 10475470009** Collected: 05/17/19 14:20 Received: 05/17/19 18:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO LV GCS Silica Gel	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
WDRO C10-C28	ND	mg/L	0.10	1	05/20/19 08:57	05/23/19 15:59		
Surrogates								
n-Triacontane (S)	105	%.	48-125	1	05/20/19 08:57	05/23/19 15:59	638-68-6	A5
WIGRO GCV	Analytical Method: WI MOD GRO							
Gasoline Range Organics	ND	ug/L	100	1		05/31/19 11:27		
Surrogates								
a,a,a-Trifluorotoluene (S)	100	%.	80-150	1		05/31/19 11:27	98-08-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Preparation Method: EPA 3010							
Arsenic, Dissolved	ND	ug/L	20.0	1	05/23/19 07:49	05/24/19 15:21	7440-38-2	
Barium, Dissolved	**73.8**	ug/L	10.0	1	05/23/19 07:49	05/24/19 15:21	7440-39-3	
Cadmium, Dissolved	ND	ug/L	3.0	1	05/23/19 07:49	05/24/19 15:21	7440-43-9	
Chromium, Dissolved	ND	ug/L	10.0	1	05/23/19 07:49	05/24/19 15:21	7440-47-3	
Lead, Dissolved	ND	ug/L	10.0	1	05/23/19 07:49	05/24/19 15:21	7439-92-1	
Selenium, Dissolved	ND	ug/L	20.0	1	05/23/19 07:49	05/24/19 15:21	7782-49-2	
Silver, Dissolved	ND	ug/L	10.0	1	05/23/19 07:49	05/24/19 15:21	7440-22-4	
7470A Mercury, Dissolved	Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury, Dissolved	ND	ug/L	0.20	1	05/23/19 12:19	05/23/19 17:02	7439-97-6	
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA Mod. 3510C							
Acenaphthene	ND	ug/L	0.045	1	05/22/19 15:20	05/25/19 12:53	83-32-9	
Acenaphthylene	ND	ug/L	0.045	1	05/22/19 15:20	05/25/19 12:53	208-96-8	
Anthracene	ND	ug/L	0.045	1	05/22/19 15:20	05/25/19 12:53	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.045	1	05/22/19 15:20	05/25/19 12:53	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.045	1	05/22/19 15:20	05/25/19 12:53	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.045	1	05/22/19 15:20	05/25/19 12:53	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.045	1	05/22/19 15:20	05/25/19 12:53	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.045	1	05/22/19 15:20	05/25/19 12:53	207-08-9	
Chrysene	ND	ug/L	0.045	1	05/22/19 15:20	05/25/19 12:53	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.045	1	05/22/19 15:20	05/25/19 12:53	53-70-3	
Fluoranthene	ND	ug/L	0.045	1	05/22/19 15:20	05/25/19 12:53	206-44-0	
Fluorene	ND	ug/L	0.045	1	05/22/19 15:20	05/25/19 12:53	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.045	1	05/22/19 15:20	05/25/19 12:53	193-39-5	
Naphthalene	ND	ug/L	0.045	1	05/22/19 15:20	05/25/19 12:53	91-20-3	
Phenanthrene	ND	ug/L	0.045	1	05/22/19 15:20	05/25/19 12:53	85-01-8	
Pyrene	ND	ug/L	0.045	1	05/22/19 15:20	05/25/19 12:53	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	63	%.	47-125	1	05/22/19 15:20	05/25/19 12:53	321-60-8	
p-Terphenyl-d14 (S)	82	%.	62-125	1	05/22/19 15:20	05/25/19 12:53	1718-51-0	
8260B VOC	Analytical Method: EPA 8260B							
Acetone	ND	ug/L	20.0	1		05/29/19 23:30	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		05/29/19 23:30	107-05-1	
Benzene	ND	ug/L	1.0	1		05/29/19 23:30	71-43-2	

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(612)607-1700

ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: MWGW **Lab ID: 10475470009** Collected: 05/17/19 14:20 Received: 05/17/19 18:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B							
Bromobenzene	ND	ug/L	1.0	1		05/29/19 23:30	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/29/19 23:30	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/29/19 23:30	75-27-4	
Bromoform	ND	ug/L	4.0	1		05/29/19 23:30	75-25-2	
Bromomethane	ND	ug/L	4.0	1		05/29/19 23:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/29/19 23:30	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/29/19 23:30	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/29/19 23:30	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/29/19 23:30	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		05/29/19 23:30	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/29/19 23:30	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/29/19 23:30	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/29/19 23:30	67-66-3	
Chloromethane	ND	ug/L	4.0	1		05/29/19 23:30	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/29/19 23:30	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/29/19 23:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		05/29/19 23:30	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/29/19 23:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/29/19 23:30	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		05/29/19 23:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/29/19 23:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/29/19 23:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/29/19 23:30	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/29/19 23:30	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/29/19 23:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/29/19 23:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/29/19 23:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/29/19 23:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/29/19 23:30	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		05/29/19 23:30	75-43-4	N2
1,2-Dichloropropane	ND	ug/L	4.0	1		05/29/19 23:30	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/29/19 23:30	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		05/29/19 23:30	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/29/19 23:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		05/29/19 23:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		05/29/19 23:30	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		05/29/19 23:30	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		05/29/19 23:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/29/19 23:30	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/29/19 23:30	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/29/19 23:30	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		05/29/19 23:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/29/19 23:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/29/19 23:30	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		05/29/19 23:30	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/29/19 23:30	103-65-1	
Styrene	ND	ug/L	1.0	1		05/29/19 23:30	100-42-5	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: MWGW **Lab ID: 10475470009** Collected: 05/17/19 14:20 Received: 05/17/19 18:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B							
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/29/19 23:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/29/19 23:30	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/29/19 23:30	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/29/19 23:30	109-99-9	
Toluene	ND	ug/L	1.0	1		05/29/19 23:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/29/19 23:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/29/19 23:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/29/19 23:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/29/19 23:30	79-00-5	
Trichloroethene	ND	ug/L	0.40	1		05/29/19 23:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/29/19 23:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		05/29/19 23:30	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		05/29/19 23:30	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/29/19 23:30	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/29/19 23:30	108-67-8	
Vinyl chloride	ND	ug/L	0.20	1		05/29/19 23:30	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/29/19 23:30	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%.	75-125	1		05/29/19 23:30	17060-07-0	
Toluene-d8 (S)	94	%.	75-125	1		05/29/19 23:30	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125	1		05/29/19 23:30	460-00-4	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: DP-1 GW **Lab ID: 10475470010** Collected: 05/17/19 08:55 Received: 05/17/19 18:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO LV GCS Silica Gel	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
WDRO C10-C28	ND	mg/L	0.12	1	05/20/19 08:57	05/23/19 16:07		
Surrogates								
n-Triacontane (S)	98	%.	48-125	1	05/20/19 08:57	05/23/19 16:07	638-68-6	A5
WIGRO GCV	Analytical Method: WI MOD GRO							
Gasoline Range Organics	ND	ug/L	100	1		05/31/19 09:45		G-,M1, R1
Surrogates								
a,a,a-Trifluorotoluene (S)	95	%.	80-150	1		05/31/19 09:45	98-08-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Preparation Method: EPA 3010							
Arsenic, Dissolved	ND	ug/L	20.0	1	05/23/19 07:49	05/24/19 15:29	7440-38-2	
Barium, Dissolved	**57.3**	ug/L	10.0	1	05/23/19 07:49	05/24/19 15:29	7440-39-3	
Cadmium, Dissolved	ND	ug/L	3.0	1	05/23/19 07:49	05/24/19 15:29	7440-43-9	
Chromium, Dissolved	ND	ug/L	10.0	1	05/23/19 07:49	05/24/19 15:29	7440-47-3	
Lead, Dissolved	ND	ug/L	10.0	1	05/23/19 07:49	05/24/19 15:29	7439-92-1	
Selenium, Dissolved	ND	ug/L	20.0	1	05/23/19 07:49	05/24/19 15:29	7782-49-2	
Silver, Dissolved	ND	ug/L	10.0	1	05/23/19 07:49	05/24/19 15:29	7440-22-4	
7470A Mercury, Dissolved	Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury, Dissolved	ND	ug/L	0.20	1	05/23/19 12:19	05/23/19 17:04	7439-97-6	
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA Mod. 3510C							
Acenaphthene	ND	ug/L	0.042	1	05/22/19 15:20	05/25/19 13:14	83-32-9	
Acenaphthylene	ND	ug/L	0.042	1	05/22/19 15:20	05/25/19 13:14	208-96-8	
Anthracene	ND	ug/L	0.042	1	05/22/19 15:20	05/25/19 13:14	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.042	1	05/22/19 15:20	05/25/19 13:14	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.042	1	05/22/19 15:20	05/25/19 13:14	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.042	1	05/22/19 15:20	05/25/19 13:14	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.042	1	05/22/19 15:20	05/25/19 13:14	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.042	1	05/22/19 15:20	05/25/19 13:14	207-08-9	
Chrysene	ND	ug/L	0.042	1	05/22/19 15:20	05/25/19 13:14	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.042	1	05/22/19 15:20	05/25/19 13:14	53-70-3	
Fluoranthene	ND	ug/L	0.042	1	05/22/19 15:20	05/25/19 13:14	206-44-0	
Fluorene	ND	ug/L	0.042	1	05/22/19 15:20	05/25/19 13:14	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.042	1	05/22/19 15:20	05/25/19 13:14	193-39-5	
Naphthalene	ND	ug/L	0.042	1	05/22/19 15:20	05/25/19 13:14	91-20-3	
Phenanthrene	ND	ug/L	0.042	1	05/22/19 15:20	05/25/19 13:14	85-01-8	
Pyrene	ND	ug/L	0.042	1	05/22/19 15:20	05/25/19 13:14	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	76	%.	47-125	1	05/22/19 15:20	05/25/19 13:14	321-60-8	
p-Terphenyl-d14 (S)	88	%.	62-125	1	05/22/19 15:20	05/25/19 13:14	1718-51-0	
8260B VOC	Analytical Method: EPA 8260B							
Acetone	ND	ug/L	20.0	1		05/29/19 02:58	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		05/29/19 02:58	107-05-1	
Benzene	ND	ug/L	1.0	1		05/29/19 02:58	71-43-2	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: DP-1 GW **Lab ID: 10475470010** Collected: 05/17/19 08:55 Received: 05/17/19 18:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B							
Bromobenzene	ND	ug/L	1.0	1		05/29/19 02:58	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/29/19 02:58	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/29/19 02:58	75-27-4	
Bromoform	ND	ug/L	4.0	1		05/29/19 02:58	75-25-2	
Bromomethane	ND	ug/L	4.0	1		05/29/19 02:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/29/19 02:58	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/29/19 02:58	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/29/19 02:58	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/29/19 02:58	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		05/29/19 02:58	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/29/19 02:58	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/29/19 02:58	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/29/19 02:58	67-66-3	
Chloromethane	ND	ug/L	4.0	1		05/29/19 02:58	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/29/19 02:58	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/29/19 02:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		05/29/19 02:58	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/29/19 02:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/29/19 02:58	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		05/29/19 02:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/29/19 02:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/29/19 02:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/29/19 02:58	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/29/19 02:58	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/29/19 02:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/29/19 02:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/29/19 02:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/29/19 02:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/29/19 02:58	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		05/29/19 02:58	75-43-4	N2
1,2-Dichloropropane	ND	ug/L	4.0	1		05/29/19 02:58	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/29/19 02:58	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		05/29/19 02:58	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/29/19 02:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		05/29/19 02:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		05/29/19 02:58	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		05/29/19 02:58	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		05/29/19 02:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/29/19 02:58	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/29/19 02:58	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/29/19 02:58	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		05/29/19 02:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/29/19 02:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/29/19 02:58	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		05/29/19 02:58	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/29/19 02:58	103-65-1	
Styrene	ND	ug/L	1.0	1		05/29/19 02:58	100-42-5	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: DP-1 GW **Lab ID: 10475470010** Collected: 05/17/19 08:55 Received: 05/17/19 18:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B							
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/29/19 02:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/29/19 02:58	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/29/19 02:58	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/29/19 02:58	109-99-9	
Toluene	ND	ug/L	1.0	1		05/29/19 02:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/29/19 02:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/29/19 02:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/29/19 02:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/29/19 02:58	79-00-5	
Trichloroethene	ND	ug/L	0.40	1		05/29/19 02:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/29/19 02:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		05/29/19 02:58	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		05/29/19 02:58	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/29/19 02:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/29/19 02:58	108-67-8	
Vinyl chloride	ND	ug/L	0.20	1		05/29/19 02:58	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/29/19 02:58	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	107	%.	75-125	1		05/29/19 02:58	17060-07-0	
Toluene-d8 (S)	95	%.	75-125	1		05/29/19 02:58	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	75-125	1		05/29/19 02:58	460-00-4	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: DP-2 GW **Lab ID: 10475470011** Collected: 05/17/19 13:37 Received: 05/17/19 18:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO LV GCS Silica Gel	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
WDRO C10-C28	ND	mg/L	0.11	1	05/20/19 08:57	05/23/19 16:15		
Surrogates								
n-Triacontane (S)	96	%.	48-125	1	05/20/19 08:57	05/23/19 16:15	638-68-6	A5
WIGRO GCV	Analytical Method: WI MOD GRO							
Gasoline Range Organics	ND	ug/L	100	1		05/31/19 11:53		G-
Surrogates								
a,a,a-Trifluorotoluene (S)	104	%.	80-150	1		05/31/19 11:53	98-08-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Preparation Method: EPA 3010							
Arsenic, Dissolved	ND	ug/L	20.0	1	05/23/19 07:49	05/24/19 15:31	7440-38-2	
Barium, Dissolved	**53.8**	ug/L	10.0	1	05/23/19 07:49	05/24/19 15:31	7440-39-3	
Cadmium, Dissolved	ND	ug/L	3.0	1	05/23/19 07:49	05/24/19 15:31	7440-43-9	
Chromium, Dissolved	ND	ug/L	10.0	1	05/23/19 07:49	05/24/19 15:31	7440-47-3	
Lead, Dissolved	ND	ug/L	10.0	1	05/23/19 07:49	05/24/19 15:31	7439-92-1	
Selenium, Dissolved	ND	ug/L	20.0	1	05/23/19 07:49	05/24/19 15:31	7782-49-2	
Silver, Dissolved	ND	ug/L	10.0	1	05/23/19 07:49	05/24/19 15:31	7440-22-4	
7470A Mercury, Dissolved	Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury, Dissolved	ND	ug/L	0.20	1	05/23/19 12:19	05/23/19 17:07	7439-97-6	
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA Mod. 3510C							
Acenaphthene	ND	ug/L	0.044	1	05/22/19 15:20	05/25/19 13:36	83-32-9	
Acenaphthylene	ND	ug/L	0.044	1	05/22/19 15:20	05/25/19 13:36	208-96-8	
Anthracene	ND	ug/L	0.044	1	05/22/19 15:20	05/25/19 13:36	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.044	1	05/22/19 15:20	05/25/19 13:36	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.044	1	05/22/19 15:20	05/25/19 13:36	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.044	1	05/22/19 15:20	05/25/19 13:36	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.044	1	05/22/19 15:20	05/25/19 13:36	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.044	1	05/22/19 15:20	05/25/19 13:36	207-08-9	
Chrysene	ND	ug/L	0.044	1	05/22/19 15:20	05/25/19 13:36	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.044	1	05/22/19 15:20	05/25/19 13:36	53-70-3	
Fluoranthene	ND	ug/L	0.044	1	05/22/19 15:20	05/25/19 13:36	206-44-0	
Fluorene	ND	ug/L	0.044	1	05/22/19 15:20	05/25/19 13:36	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.044	1	05/22/19 15:20	05/25/19 13:36	193-39-5	
Naphthalene	ND	ug/L	0.044	1	05/22/19 15:20	05/25/19 13:36	91-20-3	
Phenanthrene	ND	ug/L	0.044	1	05/22/19 15:20	05/25/19 13:36	85-01-8	
Pyrene	ND	ug/L	0.044	1	05/22/19 15:20	05/25/19 13:36	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	83	%.	47-125	1	05/22/19 15:20	05/25/19 13:36	321-60-8	
p-Terphenyl-d14 (S)	87	%.	62-125	1	05/22/19 15:20	05/25/19 13:36	1718-51-0	
8260B VOC	Analytical Method: EPA 8260B							
Acetone	ND	ug/L	20.0	1		05/29/19 03:14	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		05/29/19 03:14	107-05-1	
Benzene	ND	ug/L	1.0	1		05/29/19 03:14	71-43-2	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: DP-2 GW **Lab ID: 10475470011** Collected: 05/17/19 13:37 Received: 05/17/19 18:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B							
Bromobenzene	ND	ug/L	1.0	1		05/29/19 03:14	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/29/19 03:14	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/29/19 03:14	75-27-4	
Bromoform	ND	ug/L	4.0	1		05/29/19 03:14	75-25-2	
Bromomethane	ND	ug/L	4.0	1		05/29/19 03:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/29/19 03:14	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/29/19 03:14	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/29/19 03:14	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/29/19 03:14	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		05/29/19 03:14	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/29/19 03:14	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/29/19 03:14	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/29/19 03:14	67-66-3	
Chloromethane	ND	ug/L	4.0	1		05/29/19 03:14	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/29/19 03:14	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/29/19 03:14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		05/29/19 03:14	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/29/19 03:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/29/19 03:14	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		05/29/19 03:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/29/19 03:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/29/19 03:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/29/19 03:14	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/29/19 03:14	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/29/19 03:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/29/19 03:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/29/19 03:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/29/19 03:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/29/19 03:14	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		05/29/19 03:14	75-43-4	N2
1,2-Dichloropropane	ND	ug/L	4.0	1		05/29/19 03:14	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/29/19 03:14	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		05/29/19 03:14	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/29/19 03:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		05/29/19 03:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		05/29/19 03:14	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		05/29/19 03:14	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		05/29/19 03:14	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/29/19 03:14	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/29/19 03:14	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/29/19 03:14	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		05/29/19 03:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/29/19 03:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/29/19 03:14	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		05/29/19 03:14	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/29/19 03:14	103-65-1	
Styrene	ND	ug/L	1.0	1		05/29/19 03:14	100-42-5	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: DP-2 GW **Lab ID: 10475470011** Collected: 05/17/19 13:37 Received: 05/17/19 18:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B							
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/29/19 03:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/29/19 03:14	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/29/19 03:14	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/29/19 03:14	109-99-9	
Toluene	ND	ug/L	1.0	1		05/29/19 03:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/29/19 03:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/29/19 03:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/29/19 03:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/29/19 03:14	79-00-5	
Trichloroethene	ND	ug/L	0.40	1		05/29/19 03:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/29/19 03:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		05/29/19 03:14	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		05/29/19 03:14	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/29/19 03:14	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/29/19 03:14	108-67-8	
Vinyl chloride	ND	ug/L	0.20	1		05/29/19 03:14	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/29/19 03:14	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	107	%.	75-125	1		05/29/19 03:14	17060-07-0	
Toluene-d8 (S)	94	%.	75-125	1		05/29/19 03:14	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125	1		05/29/19 03:14	460-00-4	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: DP-3 GW **Lab ID: 10475470012** Collected: 05/17/19 11:57 Received: 05/17/19 18:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO LV GCS Silica Gel	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
WDRO C10-C28	ND	mg/L	0.12	1	05/20/19 08:57	05/23/19 15:51		
Surrogates								
n-Triacontane (S)	98	%.	48-125	1	05/20/19 08:57	05/23/19 15:51	638-68-6	A5
WIGRO GCV	Analytical Method: WI MOD GRO							
Gasoline Range Organics	ND	ug/L	100	1		05/31/19 12:19		G-
Surrogates								
a,a,a-Trifluorotoluene (S)	101	%.	80-150	1		05/31/19 12:19	98-08-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Preparation Method: EPA 3010							
Arsenic, Dissolved	ND	ug/L	20.0	1	05/23/19 07:49	05/24/19 15:33	7440-38-2	
Barium, Dissolved	**68.4**	ug/L	10.0	1	05/23/19 07:49	05/24/19 15:33	7440-39-3	
Cadmium, Dissolved	ND	ug/L	3.0	1	05/23/19 07:49	05/24/19 15:33	7440-43-9	
Chromium, Dissolved	ND	ug/L	10.0	1	05/23/19 07:49	05/24/19 15:33	7440-47-3	
Lead, Dissolved	ND	ug/L	10.0	1	05/23/19 07:49	05/24/19 15:33	7439-92-1	
Selenium, Dissolved	ND	ug/L	20.0	1	05/23/19 07:49	05/24/19 15:33	7782-49-2	
Silver, Dissolved	ND	ug/L	10.0	1	05/23/19 07:49	05/24/19 15:33	7440-22-4	
7470A Mercury, Dissolved	Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury, Dissolved	ND	ug/L	0.20	1	05/23/19 12:19	05/23/19 17:09	7439-97-6	
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA Mod. 3510C							
Acenaphthene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 13:57	83-32-9	
Acenaphthylene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 13:57	208-96-8	
Anthracene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 13:57	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 13:57	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 13:57	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 13:57	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 13:57	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 13:57	207-08-9	
Chrysene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 13:57	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 13:57	53-70-3	
Fluoranthene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 13:57	206-44-0	
Fluorene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 13:57	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 13:57	193-39-5	
Naphthalene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 13:57	91-20-3	
Phenanthrene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 13:57	85-01-8	
Pyrene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 13:57	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	63	%.	47-125	1	05/22/19 15:20	05/25/19 13:57	321-60-8	
p-Terphenyl-d14 (S)	85	%.	62-125	1	05/22/19 15:20	05/25/19 13:57	1718-51-0	
8260B VOC	Analytical Method: EPA 8260B							
Acetone	ND	ug/L	20.0	1		05/29/19 03:31	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		05/29/19 03:31	107-05-1	
Benzene	ND	ug/L	1.0	1		05/29/19 03:31	71-43-2	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: DP-3 GW **Lab ID: 10475470012** Collected: 05/17/19 11:57 Received: 05/17/19 18:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B							
Bromobenzene	ND	ug/L	1.0	1		05/29/19 03:31	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/29/19 03:31	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/29/19 03:31	75-27-4	
Bromoform	ND	ug/L	4.0	1		05/29/19 03:31	75-25-2	
Bromomethane	ND	ug/L	4.0	1		05/29/19 03:31	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/29/19 03:31	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/29/19 03:31	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/29/19 03:31	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/29/19 03:31	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		05/29/19 03:31	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/29/19 03:31	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/29/19 03:31	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/29/19 03:31	67-66-3	
Chloromethane	ND	ug/L	4.0	1		05/29/19 03:31	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/29/19 03:31	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/29/19 03:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		05/29/19 03:31	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/29/19 03:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/29/19 03:31	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		05/29/19 03:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/29/19 03:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/29/19 03:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/29/19 03:31	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/29/19 03:31	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/29/19 03:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/29/19 03:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/29/19 03:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/29/19 03:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/29/19 03:31	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		05/29/19 03:31	75-43-4	N2
1,2-Dichloropropane	ND	ug/L	4.0	1		05/29/19 03:31	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/29/19 03:31	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		05/29/19 03:31	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/29/19 03:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		05/29/19 03:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		05/29/19 03:31	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		05/29/19 03:31	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		05/29/19 03:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/29/19 03:31	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/29/19 03:31	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/29/19 03:31	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		05/29/19 03:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/29/19 03:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/29/19 03:31	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		05/29/19 03:31	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/29/19 03:31	103-65-1	
Styrene	ND	ug/L	1.0	1		05/29/19 03:31	100-42-5	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: DP-3 GW **Lab ID: 10475470012** Collected: 05/17/19 11:57 Received: 05/17/19 18:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B							
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/29/19 03:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/29/19 03:31	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/29/19 03:31	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/29/19 03:31	109-99-9	
Toluene	ND	ug/L	1.0	1		05/29/19 03:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/29/19 03:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/29/19 03:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/29/19 03:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/29/19 03:31	79-00-5	
Trichloroethene	ND	ug/L	0.40	1		05/29/19 03:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/29/19 03:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		05/29/19 03:31	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		05/29/19 03:31	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/29/19 03:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/29/19 03:31	108-67-8	
Vinyl chloride	ND	ug/L	0.20	1		05/29/19 03:31	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/29/19 03:31	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	108	%.	75-125	1		05/29/19 03:31	17060-07-0	
Toluene-d8 (S)	95	%.	75-125	1		05/29/19 03:31	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	75-125	1		05/29/19 03:31	460-00-4	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: DP-4 GW **Lab ID: 10475470013** Collected: 05/17/19 12:26 Received: 05/17/19 18:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO LV GCS Silica Gel	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
WDRO C10-C28	ND	mg/L	0.12	1	05/22/19 14:31	05/24/19 12:19		
Surrogates								
n-Triacontane (S)	91	%.	48-125	1	05/22/19 14:31	05/24/19 12:19	638-68-6	A5
WIGRO GCV	Analytical Method: WI MOD GRO							
Gasoline Range Organics	ND	ug/L	100	1		05/31/19 12:43		G-
Surrogates								
a,a,a-Trifluorotoluene (S)	99	%.	80-150	1		05/31/19 12:43	98-08-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Preparation Method: EPA 3010							
Arsenic, Dissolved	ND	ug/L	20.0	1	05/23/19 07:49	05/24/19 15:38	7440-38-2	
Barium, Dissolved	**27.7**	ug/L	10.0	1	05/23/19 07:49	05/24/19 15:38	7440-39-3	
Cadmium, Dissolved	ND	ug/L	3.0	1	05/23/19 07:49	05/24/19 15:38	7440-43-9	
Chromium, Dissolved	ND	ug/L	10.0	1	05/23/19 07:49	05/24/19 15:38	7440-47-3	
Lead, Dissolved	ND	ug/L	10.0	1	05/23/19 07:49	05/24/19 15:38	7439-92-1	
Selenium, Dissolved	ND	ug/L	20.0	1	05/23/19 07:49	05/24/19 15:38	7782-49-2	
Silver, Dissolved	ND	ug/L	10.0	1	05/23/19 07:49	05/24/19 15:38	7440-22-4	
7470A Mercury, Dissolved	Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury, Dissolved	ND	ug/L	0.20	1	05/23/19 12:19	05/23/19 17:11	7439-97-6	
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA Mod. 3510C							
Acenaphthene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 14:18	83-32-9	
Acenaphthylene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 14:18	208-96-8	
Anthracene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 14:18	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 14:18	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 14:18	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 14:18	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 14:18	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 14:18	207-08-9	
Chrysene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 14:18	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 14:18	53-70-3	
Fluoranthene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 14:18	206-44-0	
Fluorene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 14:18	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 14:18	193-39-5	
Naphthalene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 14:18	91-20-3	
Phenanthrene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 14:18	85-01-8	
Pyrene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 14:18	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	74	%.	47-125	1	05/22/19 15:20	05/25/19 14:18	321-60-8	
p-Terphenyl-d14 (S)	88	%.	62-125	1	05/22/19 15:20	05/25/19 14:18	1718-51-0	
8260B VOC	Analytical Method: EPA 8260B							
Acetone	ND	ug/L	20.0	1		05/29/19 03:48	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		05/29/19 03:48	107-05-1	
Benzene	ND	ug/L	1.0	1		05/29/19 03:48	71-43-2	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: DP-4 GW **Lab ID: 10475470013** Collected: 05/17/19 12:26 Received: 05/17/19 18:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B							
Bromobenzene	ND	ug/L	1.0	1		05/29/19 03:48	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/29/19 03:48	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/29/19 03:48	75-27-4	
Bromoform	ND	ug/L	4.0	1		05/29/19 03:48	75-25-2	
Bromomethane	ND	ug/L	4.0	1		05/29/19 03:48	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/29/19 03:48	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/29/19 03:48	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/29/19 03:48	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/29/19 03:48	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		05/29/19 03:48	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/29/19 03:48	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/29/19 03:48	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/29/19 03:48	67-66-3	
Chloromethane	ND	ug/L	4.0	1		05/29/19 03:48	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/29/19 03:48	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/29/19 03:48	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		05/29/19 03:48	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/29/19 03:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/29/19 03:48	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		05/29/19 03:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/29/19 03:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/29/19 03:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/29/19 03:48	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/29/19 03:48	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/29/19 03:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/29/19 03:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/29/19 03:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/29/19 03:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/29/19 03:48	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		05/29/19 03:48	75-43-4	N2
1,2-Dichloropropane	ND	ug/L	4.0	1		05/29/19 03:48	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/29/19 03:48	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		05/29/19 03:48	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/29/19 03:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		05/29/19 03:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		05/29/19 03:48	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		05/29/19 03:48	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		05/29/19 03:48	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/29/19 03:48	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/29/19 03:48	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/29/19 03:48	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		05/29/19 03:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/29/19 03:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/29/19 03:48	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		05/29/19 03:48	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/29/19 03:48	103-65-1	
Styrene	ND	ug/L	1.0	1		05/29/19 03:48	100-42-5	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: DP-4 GW **Lab ID: 10475470013** Collected: 05/17/19 12:26 Received: 05/17/19 18:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B							
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/29/19 03:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/29/19 03:48	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/29/19 03:48	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/29/19 03:48	109-99-9	
Toluene	ND	ug/L	1.0	1		05/29/19 03:48	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/29/19 03:48	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/29/19 03:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/29/19 03:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/29/19 03:48	79-00-5	
Trichloroethene	ND	ug/L	0.40	1		05/29/19 03:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/29/19 03:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		05/29/19 03:48	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		05/29/19 03:48	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/29/19 03:48	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/29/19 03:48	108-67-8	
Vinyl chloride	ND	ug/L	0.20	1		05/29/19 03:48	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/29/19 03:48	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	107	%.	75-125	1		05/29/19 03:48	17060-07-0	
Toluene-d8 (S)	95	%.	75-125	1		05/29/19 03:48	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	75-125	1		05/29/19 03:48	460-00-4	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: DP-5 GW **Lab ID: 10475470014** Collected: 05/17/19 10:45 Received: 05/17/19 18:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO LV GCS Silica Gel	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
WDRO C10-C28	ND	mg/L	0.11	1	05/22/19 14:31	05/24/19 12:35		
Surrogates								
n-Triacontane (S)	98	%.	48-125	1	05/22/19 14:31	05/24/19 12:35	638-68-6	A5
WIGRO GCV	Analytical Method: WI MOD GRO							
Gasoline Range Organics	ND	ug/L	100	1		05/31/19 13:10		G-
Surrogates								
a,a,a-Trifluorotoluene (S)	106	%.	80-150	1		05/31/19 13:10	98-08-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Preparation Method: EPA 3010							
Arsenic, Dissolved	ND	ug/L	20.0	1	05/23/19 07:49	05/24/19 15:39	7440-38-2	
Barium, Dissolved	**56.4**	ug/L	10.0	1	05/23/19 07:49	05/24/19 15:39	7440-39-3	
Cadmium, Dissolved	ND	ug/L	3.0	1	05/23/19 07:49	05/24/19 15:39	7440-43-9	
Chromium, Dissolved	ND	ug/L	10.0	1	05/23/19 07:49	05/24/19 15:39	7440-47-3	
Lead, Dissolved	ND	ug/L	10.0	1	05/23/19 07:49	05/24/19 15:39	7439-92-1	
Selenium, Dissolved	ND	ug/L	20.0	1	05/23/19 07:49	05/24/19 15:39	7782-49-2	
Silver, Dissolved	ND	ug/L	10.0	1	05/23/19 07:49	05/24/19 15:39	7440-22-4	
7470A Mercury, Dissolved	Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury, Dissolved	ND	ug/L	0.20	1	05/23/19 12:19	05/23/19 17:14	7439-97-6	
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA Mod. 3510C							
Acenaphthene	ND	ug/L	0.046	1	05/22/19 15:20	05/25/19 14:40	83-32-9	
Acenaphthylene	ND	ug/L	0.046	1	05/22/19 15:20	05/25/19 14:40	208-96-8	
Anthracene	ND	ug/L	0.046	1	05/22/19 15:20	05/25/19 14:40	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.046	1	05/22/19 15:20	05/25/19 14:40	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.046	1	05/22/19 15:20	05/25/19 14:40	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.046	1	05/22/19 15:20	05/25/19 14:40	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.046	1	05/22/19 15:20	05/25/19 14:40	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.046	1	05/22/19 15:20	05/25/19 14:40	207-08-9	
Chrysene	ND	ug/L	0.046	1	05/22/19 15:20	05/25/19 14:40	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.046	1	05/22/19 15:20	05/25/19 14:40	53-70-3	
Fluoranthene	ND	ug/L	0.046	1	05/22/19 15:20	05/25/19 14:40	206-44-0	
Fluorene	ND	ug/L	0.046	1	05/22/19 15:20	05/25/19 14:40	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.046	1	05/22/19 15:20	05/25/19 14:40	193-39-5	
Naphthalene	ND	ug/L	0.046	1	05/22/19 15:20	05/25/19 14:40	91-20-3	
Phenanthrene	ND	ug/L	0.046	1	05/22/19 15:20	05/25/19 14:40	85-01-8	
Pyrene	ND	ug/L	0.046	1	05/22/19 15:20	05/25/19 14:40	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	73	%.	47-125	1	05/22/19 15:20	05/25/19 14:40	321-60-8	
p-Terphenyl-d14 (S)	89	%.	62-125	1	05/22/19 15:20	05/25/19 14:40	1718-51-0	
8260B VOC	Analytical Method: EPA 8260B							
Acetone	ND	ug/L	20.0	1		05/29/19 04:04	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		05/29/19 04:04	107-05-1	
Benzene	ND	ug/L	1.0	1		05/29/19 04:04	71-43-2	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: DP-5 GW **Lab ID: 10475470014** Collected: 05/17/19 10:45 Received: 05/17/19 18:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B							
Bromobenzene	ND	ug/L	1.0	1		05/29/19 04:04	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/29/19 04:04	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/29/19 04:04	75-27-4	
Bromoform	ND	ug/L	4.0	1		05/29/19 04:04	75-25-2	
Bromomethane	ND	ug/L	4.0	1		05/29/19 04:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/29/19 04:04	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/29/19 04:04	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/29/19 04:04	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/29/19 04:04	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		05/29/19 04:04	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/29/19 04:04	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/29/19 04:04	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/29/19 04:04	67-66-3	
Chloromethane	ND	ug/L	4.0	1		05/29/19 04:04	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/29/19 04:04	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/29/19 04:04	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		05/29/19 04:04	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/29/19 04:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/29/19 04:04	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		05/29/19 04:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/29/19 04:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/29/19 04:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/29/19 04:04	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/29/19 04:04	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/29/19 04:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/29/19 04:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/29/19 04:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/29/19 04:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/29/19 04:04	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		05/29/19 04:04	75-43-4	N2
1,2-Dichloropropane	ND	ug/L	4.0	1		05/29/19 04:04	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/29/19 04:04	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		05/29/19 04:04	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/29/19 04:04	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		05/29/19 04:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		05/29/19 04:04	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		05/29/19 04:04	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		05/29/19 04:04	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/29/19 04:04	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/29/19 04:04	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/29/19 04:04	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		05/29/19 04:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/29/19 04:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/29/19 04:04	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		05/29/19 04:04	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/29/19 04:04	103-65-1	
Styrene	ND	ug/L	1.0	1		05/29/19 04:04	100-42-5	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: DP-5 GW **Lab ID: 10475470014** Collected: 05/17/19 10:45 Received: 05/17/19 18:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B							
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/29/19 04:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/29/19 04:04	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/29/19 04:04	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/29/19 04:04	109-99-9	
Toluene	ND	ug/L	1.0	1		05/29/19 04:04	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/29/19 04:04	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/29/19 04:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/29/19 04:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/29/19 04:04	79-00-5	
Trichloroethene	ND	ug/L	0.40	1		05/29/19 04:04	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/29/19 04:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		05/29/19 04:04	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		05/29/19 04:04	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/29/19 04:04	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/29/19 04:04	108-67-8	
Vinyl chloride	ND	ug/L	0.20	1		05/29/19 04:04	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/29/19 04:04	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	106	%.	75-125	1		05/29/19 04:04	17060-07-0	
Toluene-d8 (S)	94	%.	75-125	1		05/29/19 04:04	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	75-125	1		05/29/19 04:04	460-00-4	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: DP-8 GW **Lab ID: 10475470015** Collected: 05/17/19 13:07 Received: 05/17/19 18:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO LV GCS Silica Gel	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
WDRO C10-C28	ND	mg/L	0.12	1	05/22/19 14:31	05/24/19 12:43		
Surrogates								
n-Triacontane (S)	86	%.	48-125	1	05/22/19 14:31	05/24/19 12:43	638-68-6	A5
WIGRO GCV	Analytical Method: WI MOD GRO							
Gasoline Range Organics	ND	ug/L	100	1		05/31/19 13:35		G-
Surrogates								
a,a,a-Trifluorotoluene (S)	98	%.	80-150	1		05/31/19 13:35	98-08-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Preparation Method: EPA 3010							
Arsenic, Dissolved	ND	ug/L	20.0	1	05/23/19 07:49	05/24/19 15:41	7440-38-2	
Barium, Dissolved	**16.0**	ug/L	10.0	1	05/23/19 07:49	05/24/19 15:41	7440-39-3	
Cadmium, Dissolved	ND	ug/L	3.0	1	05/23/19 07:49	05/24/19 15:41	7440-43-9	
Chromium, Dissolved	ND	ug/L	10.0	1	05/23/19 07:49	05/24/19 15:41	7440-47-3	
Lead, Dissolved	ND	ug/L	10.0	1	05/23/19 07:49	05/24/19 15:41	7439-92-1	
Selenium, Dissolved	ND	ug/L	20.0	1	05/23/19 07:49	05/24/19 15:41	7782-49-2	
Silver, Dissolved	ND	ug/L	10.0	1	05/23/19 07:49	05/24/19 15:41	7440-22-4	
7470A Mercury, Dissolved	Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury, Dissolved	ND	ug/L	0.20	1	05/23/19 12:19	05/23/19 17:16	7439-97-6	
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA Mod. 3510C							
Acenaphthene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 15:01	83-32-9	
Acenaphthylene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 15:01	208-96-8	
Anthracene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 15:01	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 15:01	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 15:01	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 15:01	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 15:01	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 15:01	207-08-9	
Chrysene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 15:01	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 15:01	53-70-3	
Fluoranthene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 15:01	206-44-0	
Fluorene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 15:01	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 15:01	193-39-5	
Naphthalene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 15:01	91-20-3	
Phenanthrene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 15:01	85-01-8	
Pyrene	ND	ug/L	0.048	1	05/22/19 15:20	05/25/19 15:01	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	65	%.	47-125	1	05/22/19 15:20	05/25/19 15:01	321-60-8	
p-Terphenyl-d14 (S)	86	%.	62-125	1	05/22/19 15:20	05/25/19 15:01	1718-51-0	
8260B VOC	Analytical Method: EPA 8260B							
Acetone	ND	ug/L	20.0	1		05/29/19 04:21	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		05/29/19 04:21	107-05-1	
Benzene	ND	ug/L	1.0	1		05/29/19 04:21	71-43-2	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: DP-8 GW **Lab ID: 10475470015** Collected: 05/17/19 13:07 Received: 05/17/19 18:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B							
Bromobenzene	ND	ug/L	1.0	1		05/29/19 04:21	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/29/19 04:21	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/29/19 04:21	75-27-4	
Bromoform	ND	ug/L	4.0	1		05/29/19 04:21	75-25-2	
Bromomethane	ND	ug/L	4.0	1		05/29/19 04:21	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/29/19 04:21	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/29/19 04:21	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/29/19 04:21	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/29/19 04:21	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		05/29/19 04:21	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/29/19 04:21	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/29/19 04:21	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/29/19 04:21	67-66-3	
Chloromethane	ND	ug/L	4.0	1		05/29/19 04:21	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/29/19 04:21	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/29/19 04:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		05/29/19 04:21	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/29/19 04:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/29/19 04:21	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		05/29/19 04:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/29/19 04:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/29/19 04:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/29/19 04:21	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/29/19 04:21	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/29/19 04:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/29/19 04:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/29/19 04:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/29/19 04:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/29/19 04:21	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		05/29/19 04:21	75-43-4	N2
1,2-Dichloropropane	ND	ug/L	4.0	1		05/29/19 04:21	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/29/19 04:21	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		05/29/19 04:21	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/29/19 04:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		05/29/19 04:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		05/29/19 04:21	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		05/29/19 04:21	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		05/29/19 04:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/29/19 04:21	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/29/19 04:21	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/29/19 04:21	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		05/29/19 04:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/29/19 04:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/29/19 04:21	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		05/29/19 04:21	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/29/19 04:21	103-65-1	
Styrene	ND	ug/L	1.0	1		05/29/19 04:21	100-42-5	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: DP-8 GW **Lab ID: 10475470015** Collected: 05/17/19 13:07 Received: 05/17/19 18:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B							
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/29/19 04:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/29/19 04:21	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/29/19 04:21	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/29/19 04:21	109-99-9	
Toluene	ND	ug/L	1.0	1		05/29/19 04:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/29/19 04:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/29/19 04:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/29/19 04:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/29/19 04:21	79-00-5	
Trichloroethene	ND	ug/L	0.40	1		05/29/19 04:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/29/19 04:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		05/29/19 04:21	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		05/29/19 04:21	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/29/19 04:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/29/19 04:21	108-67-8	
Vinyl chloride	ND	ug/L	0.20	1		05/29/19 04:21	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/29/19 04:21	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	106	%.	75-125	1		05/29/19 04:21	17060-07-0	
Toluene-d8 (S)	94	%.	75-125	1		05/29/19 04:21	2037-26-5	
4-Bromofluorobenzene (S)	96	%.	75-125	1		05/29/19 04:21	460-00-4	

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: SP-1 **Lab ID: 10475470016** Collected: 05/17/19 15:00 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Silica Gel	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
WDRO C10-C28	**56.7**	mg/kg	18.7	2	05/21/19 20:00	05/24/19 11:35		T6
Surrogates								
n-Triacontane (S)	99	%.	44-143	2	05/21/19 20:00	05/24/19 11:35	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil							
Gasoline Range Organics	ND	mg/kg	11.2	1	05/28/19 17:09	05/30/19 17:09		
Surrogates								
a,a,a-Trifluorotoluene (S)	100	%.	80-150	1	05/28/19 17:09	05/30/19 17:09	98-08-8	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050							
Arsenic	**1.3**	mg/kg	1.0	1	05/24/19 15:14	05/28/19 12:02	7440-38-2	
Barium	**20.5**	mg/kg	0.50	1	05/24/19 15:14	05/28/19 12:02	7440-39-3	
Cadmium	ND	mg/kg	0.15	1	05/24/19 15:14	05/28/19 12:02	7440-43-9	
Chromium	**12.0**	mg/kg	0.50	1	05/24/19 15:14	05/28/19 12:02	7440-47-3	
Lead	**3.2**	mg/kg	0.50	1	05/24/19 15:14	05/28/19 12:02	7439-92-1	
Selenium	ND	mg/kg	1.0	1	05/24/19 15:14	05/28/19 12:02	7782-49-2	
Silver	ND	mg/kg	0.50	1	05/24/19 15:14	05/28/19 12:02	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B							
Mercury	ND	mg/kg	0.019	1	05/24/19 16:31	05/28/19 12:20	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974							
Percent Moisture	**5.3**	%	0.10	1		05/24/19 12:44		
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550							
Acenaphthene	ND	ug/kg	52.8	1	05/22/19 08:38	05/28/19 11:02	83-32-9	
Acenaphthylene	ND	ug/kg	52.8	1	05/22/19 08:38	05/28/19 11:02	208-96-8	
Anthracene	ND	ug/kg	52.8	1	05/22/19 08:38	05/28/19 11:02	120-12-7	
Benzo(a)anthracene	**96.2**	ug/kg	52.8	1	05/22/19 08:38	05/28/19 11:02	56-55-3	
Benzo(a)pyrene	**116**	ug/kg	52.8	1	05/22/19 08:38	05/28/19 11:02	50-32-8	
Benzo(b)fluoranthene	**155**	ug/kg	52.8	1	05/22/19 08:38	05/28/19 11:02	205-99-2	
Benzo(g,h,i)perylene	**118**	ug/kg	52.8	1	05/22/19 08:38	05/28/19 11:02	191-24-2	
Benzo(k)fluoranthene	**54.6**	ug/kg	52.8	1	05/22/19 08:38	05/28/19 11:02	207-08-9	
Chrysene	**136**	ug/kg	52.8	1	05/22/19 08:38	05/28/19 11:02	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	52.8	1	05/22/19 08:38	05/28/19 11:02	53-70-3	
Fluoranthene	**312**	ug/kg	52.8	1	05/22/19 08:38	05/28/19 11:02	206-44-0	
Fluorene	ND	ug/kg	52.8	1	05/22/19 08:38	05/28/19 11:02	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	52.8	1	05/22/19 08:38	05/28/19 11:02	193-39-5	
Naphthalene	ND	ug/kg	52.8	1	05/22/19 08:38	05/28/19 11:02	91-20-3	
Phenanthrene	**197**	ug/kg	52.8	1	05/22/19 08:38	05/28/19 11:02	85-01-8	
Pyrene	**245**	ug/kg	52.8	1	05/22/19 08:38	05/28/19 11:02	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	81	%.	30-125	1	05/22/19 08:38	05/28/19 11:02	321-60-8	P3
p-Terphenyl-d14 (S)	87	%.	30-125	1	05/22/19 08:38	05/28/19 11:02	1718-51-0	

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: SP-1 **Lab ID: 10475470016** Collected: 05/17/19 15:00 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Acetone	ND	ug/kg	1120	1	05/24/19 16:10	05/25/19 17:32	67-64-1	
Allyl chloride	ND	ug/kg	225	1	05/24/19 16:10	05/25/19 17:32	107-05-1	
Benzene	ND	ug/kg	22.5	1	05/24/19 16:10	05/25/19 17:32	71-43-2	
Bromobenzene	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	108-86-1	
Bromochloromethane	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	74-97-5	
Bromodichloromethane	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	75-27-4	
Bromoform	ND	ug/kg	225	1	05/24/19 16:10	05/25/19 17:32	75-25-2	
Bromomethane	ND	ug/kg	561	1	05/24/19 16:10	05/25/19 17:32	74-83-9	
2-Butanone (MEK)	ND	ug/kg	281	1	05/24/19 16:10	05/25/19 17:32	78-93-3	
n-Butylbenzene	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	104-51-8	
sec-Butylbenzene	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	135-98-8	
tert-Butylbenzene	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	98-06-6	
Carbon tetrachloride	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	56-23-5	
Chlorobenzene	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	108-90-7	
Chloroethane	ND	ug/kg	561	1	05/24/19 16:10	05/25/19 17:32	75-00-3	
Chloroform	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	67-66-3	
Chloromethane	ND	ug/kg	225	1	05/24/19 16:10	05/25/19 17:32	74-87-3	
2-Chlorotoluene	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	95-49-8	
4-Chlorotoluene	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	561	1	05/24/19 16:10	05/25/19 17:32	96-12-8	
Dibromochloromethane	ND	ug/kg	225	1	05/24/19 16:10	05/25/19 17:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	106-93-4	
Dibromomethane	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	225	1	05/24/19 16:10	05/25/19 17:32	75-71-8	
1,1-Dichloroethane	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	75-34-3	
1,2-Dichloroethane	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	107-06-2	
1,1-Dichloroethene	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	156-60-5	
Dichlorofluoromethane	ND	ug/kg	561	1	05/24/19 16:10	05/25/19 17:32	75-43-4	N2
1,2-Dichloropropane	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	78-87-5	
1,3-Dichloropropane	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	142-28-9	
2,2-Dichloropropane	ND	ug/kg	225	1	05/24/19 16:10	05/25/19 17:32	594-20-7	
1,1-Dichloropropene	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	225	1	05/24/19 16:10	05/25/19 17:32	60-29-7	
Ethylbenzene	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	281	1	05/24/19 16:10	05/25/19 17:32	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	98-82-8	
p-Isopropyltoluene	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	99-87-6	
Methylene Chloride	ND	ug/kg	225	1	05/24/19 16:10	05/25/19 17:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	281	1	05/24/19 16:10	05/25/19 17:32	108-10-1	

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(612)607-1700

ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: SP-1 **Lab ID: 10475470016** Collected: 05/17/19 15:00 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B	Preparation Method: EPA 5035/5030B						
Methyl-tert-butyl ether	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	1634-04-4	
Naphthalene	ND	ug/kg	225	1	05/24/19 16:10	05/25/19 17:32	91-20-3	
n-Propylbenzene	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	103-65-1	
Styrene	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	79-34-5	
Tetrachloroethene	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	127-18-4	
Tetrahydrofuran	ND	ug/kg	2250	1	05/24/19 16:10	05/25/19 17:32	109-99-9	
Toluene	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	79-00-5	
Trichloroethene	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	79-01-6	
Trichlorofluoromethane	ND	ug/kg	225	1	05/24/19 16:10	05/25/19 17:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	225	1	05/24/19 16:10	05/25/19 17:32	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	225	1	05/24/19 16:10	05/25/19 17:32	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	56.1	1	05/24/19 16:10	05/25/19 17:32	108-67-8	
Vinyl chloride	ND	ug/kg	22.5	1	05/24/19 16:10	05/25/19 17:32	75-01-4	
Xylene (Total)	ND	ug/kg	168	1	05/24/19 16:10	05/25/19 17:32	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%.	75-125	1	05/24/19 16:10	05/25/19 17:32	17060-07-0	
Toluene-d8 (S)	97	%.	75-125	1	05/24/19 16:10	05/25/19 17:32	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125	1	05/24/19 16:10	05/25/19 17:32	460-00-4	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: SP-2 **Lab ID: 10475470017** Collected: 05/17/19 15:19 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Silica Gel	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
WDRO C10-C28	**81.4**	mg/kg	58.6	5	05/21/19 20:00	05/24/19 11:41		T6
Surrogates								
n-Triacontane (S)	97	%.	44-143	5	05/21/19 20:00	05/24/19 11:41	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil							
Gasoline Range Organics	ND	mg/kg	11.8	1	05/28/19 17:09	05/30/19 18:01		
Surrogates								
a,a,a-Trifluorotoluene (S)	99	%.	80-150	1	05/28/19 17:09	05/30/19 18:01	98-08-8	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050							
Arsenic	**1.7**	mg/kg	1.1	1	05/24/19 15:14	05/28/19 12:04	7440-38-2	
Barium	**23.5**	mg/kg	0.53	1	05/24/19 15:14	05/28/19 12:04	7440-39-3	
Cadmium	ND	mg/kg	0.16	1	05/24/19 15:14	05/28/19 12:04	7440-43-9	
Chromium	**14.2**	mg/kg	0.53	1	05/24/19 15:14	05/28/19 12:04	7440-47-3	
Lead	**4.1**	mg/kg	0.53	1	05/24/19 15:14	05/28/19 12:04	7439-92-1	
Selenium	ND	mg/kg	1.1	1	05/24/19 15:14	05/28/19 12:04	7782-49-2	
Silver	ND	mg/kg	0.53	1	05/24/19 15:14	05/28/19 12:04	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B							
Mercury	ND	mg/kg	0.020	1	05/24/19 16:31	05/28/19 12:22	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974							
Percent Moisture	**9.1**	%	0.10	1		05/24/19 12:44		
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550							
Acenaphthene	ND	ug/kg	54.8	1	05/22/19 08:38	05/28/19 11:26	83-32-9	
Acenaphthylene	ND	ug/kg	54.8	1	05/22/19 08:38	05/28/19 11:26	208-96-8	
Anthracene	ND	ug/kg	54.8	1	05/22/19 08:38	05/28/19 11:26	120-12-7	
Benzo(a)anthracene	ND	ug/kg	54.8	1	05/22/19 08:38	05/28/19 11:26	56-55-3	
Benzo(a)pyrene	ND	ug/kg	54.8	1	05/22/19 08:38	05/28/19 11:26	50-32-8	
Benzo(b)fluoranthene	**57.0**	ug/kg	54.8	1	05/22/19 08:38	05/28/19 11:26	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	54.8	1	05/22/19 08:38	05/28/19 11:26	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	54.8	1	05/22/19 08:38	05/28/19 11:26	207-08-9	
Chrysene	ND	ug/kg	54.8	1	05/22/19 08:38	05/28/19 11:26	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	54.8	1	05/22/19 08:38	05/28/19 11:26	53-70-3	
Fluoranthene	**71.5**	ug/kg	54.8	1	05/22/19 08:38	05/28/19 11:26	206-44-0	
Fluorene	ND	ug/kg	54.8	1	05/22/19 08:38	05/28/19 11:26	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	54.8	1	05/22/19 08:38	05/28/19 11:26	193-39-5	
Naphthalene	ND	ug/kg	54.8	1	05/22/19 08:38	05/28/19 11:26	91-20-3	
Phenanthrene	ND	ug/kg	54.8	1	05/22/19 08:38	05/28/19 11:26	85-01-8	
Pyrene	**64.8**	ug/kg	54.8	1	05/22/19 08:38	05/28/19 11:26	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	80	%.	30-125	1	05/22/19 08:38	05/28/19 11:26	321-60-8	P3
p-Terphenyl-d14 (S)	84	%.	30-125	1	05/22/19 08:38	05/28/19 11:26	1718-51-0	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: SP-2 **Lab ID: 10475470017** Collected: 05/17/19 15:19 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Acetone	ND	ug/kg	1140	1	05/24/19 16:10	05/25/19 17:54	67-64-1	
Allyl chloride	ND	ug/kg	228	1	05/24/19 16:10	05/25/19 17:54	107-05-1	
Benzene	ND	ug/kg	22.8	1	05/24/19 16:10	05/25/19 17:54	71-43-2	
Bromobenzene	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	108-86-1	
Bromochloromethane	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	74-97-5	
Bromodichloromethane	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	75-27-4	
Bromoform	ND	ug/kg	228	1	05/24/19 16:10	05/25/19 17:54	75-25-2	
Bromomethane	ND	ug/kg	570	1	05/24/19 16:10	05/25/19 17:54	74-83-9	
2-Butanone (MEK)	ND	ug/kg	285	1	05/24/19 16:10	05/25/19 17:54	78-93-3	
n-Butylbenzene	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	104-51-8	
sec-Butylbenzene	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	135-98-8	
tert-Butylbenzene	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	98-06-6	
Carbon tetrachloride	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	56-23-5	
Chlorobenzene	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	108-90-7	
Chloroethane	ND	ug/kg	570	1	05/24/19 16:10	05/25/19 17:54	75-00-3	
Chloroform	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	67-66-3	
Chloromethane	ND	ug/kg	228	1	05/24/19 16:10	05/25/19 17:54	74-87-3	
2-Chlorotoluene	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	95-49-8	
4-Chlorotoluene	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	570	1	05/24/19 16:10	05/25/19 17:54	96-12-8	
Dibromochloromethane	ND	ug/kg	228	1	05/24/19 16:10	05/25/19 17:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	106-93-4	
Dibromomethane	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	228	1	05/24/19 16:10	05/25/19 17:54	75-71-8	
1,1-Dichloroethane	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	75-34-3	
1,2-Dichloroethane	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	107-06-2	
1,1-Dichloroethene	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	156-60-5	
Dichlorofluoromethane	ND	ug/kg	570	1	05/24/19 16:10	05/25/19 17:54	75-43-4	N2
1,2-Dichloropropane	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	78-87-5	
1,3-Dichloropropane	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	142-28-9	
2,2-Dichloropropane	ND	ug/kg	228	1	05/24/19 16:10	05/25/19 17:54	594-20-7	
1,1-Dichloropropene	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	228	1	05/24/19 16:10	05/25/19 17:54	60-29-7	
Ethylbenzene	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	285	1	05/24/19 16:10	05/25/19 17:54	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	98-82-8	
p-Isopropyltoluene	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	99-87-6	
Methylene Chloride	ND	ug/kg	228	1	05/24/19 16:10	05/25/19 17:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	285	1	05/24/19 16:10	05/25/19 17:54	108-10-1	

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(612)607-1700

ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: SP-2 **Lab ID: 10475470017** Collected: 05/17/19 15:19 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B	Preparation Method: EPA 5035/5030B						
Methyl-tert-butyl ether	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	1634-04-4	
Naphthalene	ND	ug/kg	228	1	05/24/19 16:10	05/25/19 17:54	91-20-3	
n-Propylbenzene	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	103-65-1	
Styrene	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	79-34-5	
Tetrachloroethene	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	127-18-4	
Tetrahydrofuran	ND	ug/kg	2280	1	05/24/19 16:10	05/25/19 17:54	109-99-9	
Toluene	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	79-00-5	
Trichloroethene	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	79-01-6	
Trichlorofluoromethane	ND	ug/kg	228	1	05/24/19 16:10	05/25/19 17:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	228	1	05/24/19 16:10	05/25/19 17:54	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	228	1	05/24/19 16:10	05/25/19 17:54	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	57.0	1	05/24/19 16:10	05/25/19 17:54	108-67-8	
Vinyl chloride	ND	ug/kg	22.8	1	05/24/19 16:10	05/25/19 17:54	75-01-4	
Xylene (Total)	ND	ug/kg	171	1	05/24/19 16:10	05/25/19 17:54	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%.	75-125	1	05/24/19 16:10	05/25/19 17:54	17060-07-0	
Toluene-d8 (S)	97	%.	75-125	1	05/24/19 16:10	05/25/19 17:54	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	75-125	1	05/24/19 16:10	05/25/19 17:54	460-00-4	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: SP-3 **Lab ID: 10475470018** Collected: 05/17/19 15:42 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Silica Gel	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
WDRO C10-C28	**43.0**	mg/kg	20.6	2	05/21/19 20:00	05/24/19 11:48		T6
Surrogates								
n-Triacontane (S)	62	%.	44-143	2	05/21/19 20:00	05/24/19 11:48	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil							
Gasoline Range Organics	ND	mg/kg	11.2	1	05/28/19 17:09	05/30/19 18:27		
Surrogates								
a,a,a-Trifluorotoluene (S)	100	%.	80-150	1	05/28/19 17:09	05/30/19 18:27	98-08-8	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050							
Arsenic	**1.9**	mg/kg	1.0	1	05/24/19 15:14	05/28/19 12:05	7440-38-2	
Barium	**21.5**	mg/kg	0.52	1	05/24/19 15:14	05/28/19 12:05	7440-39-3	
Cadmium	ND	mg/kg	0.16	1	05/24/19 15:14	05/28/19 12:05	7440-43-9	
Chromium	**10.5**	mg/kg	0.52	1	05/24/19 15:14	05/28/19 12:05	7440-47-3	
Lead	**5.4**	mg/kg	0.52	1	05/24/19 15:14	05/28/19 12:05	7439-92-1	
Selenium	ND	mg/kg	1.0	1	05/24/19 15:14	05/28/19 12:05	7782-49-2	
Silver	ND	mg/kg	0.52	1	05/24/19 15:14	05/28/19 12:05	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B							
Mercury	ND	mg/kg	0.021	1	05/24/19 16:31	05/28/19 12:25	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974							
Percent Moisture	**10.7**	%	0.10	1		05/24/19 13:44		
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550							
Acenaphthene	ND	ug/kg	11.1	1	05/22/19 08:38	05/28/19 11:50	83-32-9	
Acenaphthylene	ND	ug/kg	11.1	1	05/22/19 08:38	05/28/19 11:50	208-96-8	
Anthracene	**17.2**	ug/kg	11.1	1	05/22/19 08:38	05/28/19 11:50	120-12-7	
Benzo(a)anthracene	**35.4**	ug/kg	11.1	1	05/22/19 08:38	05/28/19 11:50	56-55-3	
Benzo(a)pyrene	**50.5**	ug/kg	11.1	1	05/22/19 08:38	05/28/19 11:50	50-32-8	
Benzo(b)fluoranthene	**65.5**	ug/kg	11.1	1	05/22/19 08:38	05/28/19 11:50	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	11.1	1	05/22/19 08:38	05/28/19 11:50	191-24-2	
Benzo(k)fluoranthene	**32.2**	ug/kg	11.1	1	05/22/19 08:38	05/28/19 11:50	207-08-9	
Chrysene	**65.7**	ug/kg	11.1	1	05/22/19 08:38	05/28/19 11:50	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	11.1	1	05/22/19 08:38	05/28/19 11:50	53-70-3	
Fluoranthene	**102**	ug/kg	11.1	1	05/22/19 08:38	05/28/19 11:50	206-44-0	
Fluorene	ND	ug/kg	11.1	1	05/22/19 08:38	05/28/19 11:50	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	11.1	1	05/22/19 08:38	05/28/19 11:50	193-39-5	
Naphthalene	ND	ug/kg	11.1	1	05/22/19 08:38	05/28/19 11:50	91-20-3	
Phenanthrene	**59.7**	ug/kg	11.1	1	05/22/19 08:38	05/28/19 11:50	85-01-8	
Pyrene	**97.0**	ug/kg	11.1	1	05/22/19 08:38	05/28/19 11:50	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	60	%.	30-125	1	05/22/19 08:38	05/28/19 11:50	321-60-8	
p-Terphenyl-d14 (S)	61	%.	30-125	1	05/22/19 08:38	05/28/19 11:50	1718-51-0	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: SP-3 **Lab ID: 10475470018** Collected: 05/17/19 15:42 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Acetone	ND	ug/kg	1220	1	05/24/19 16:10	05/25/19 18:15	67-64-1	
Allyl chloride	ND	ug/kg	243	1	05/24/19 16:10	05/25/19 18:15	107-05-1	
Benzene	ND	ug/kg	24.3	1	05/24/19 16:10	05/25/19 18:15	71-43-2	
Bromobenzene	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	108-86-1	
Bromochloromethane	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	74-97-5	
Bromodichloromethane	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	75-27-4	
Bromoform	ND	ug/kg	243	1	05/24/19 16:10	05/25/19 18:15	75-25-2	
Bromomethane	ND	ug/kg	608	1	05/24/19 16:10	05/25/19 18:15	74-83-9	
2-Butanone (MEK)	ND	ug/kg	304	1	05/24/19 16:10	05/25/19 18:15	78-93-3	
n-Butylbenzene	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	104-51-8	
sec-Butylbenzene	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	135-98-8	
tert-Butylbenzene	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	98-06-6	
Carbon tetrachloride	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	56-23-5	
Chlorobenzene	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	108-90-7	
Chloroethane	ND	ug/kg	608	1	05/24/19 16:10	05/25/19 18:15	75-00-3	
Chloroform	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	67-66-3	
Chloromethane	ND	ug/kg	243	1	05/24/19 16:10	05/25/19 18:15	74-87-3	
2-Chlorotoluene	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	95-49-8	
4-Chlorotoluene	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	608	1	05/24/19 16:10	05/25/19 18:15	96-12-8	
Dibromochloromethane	ND	ug/kg	243	1	05/24/19 16:10	05/25/19 18:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	106-93-4	
Dibromomethane	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	243	1	05/24/19 16:10	05/25/19 18:15	75-71-8	
1,1-Dichloroethane	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	75-34-3	
1,2-Dichloroethane	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	107-06-2	
1,1-Dichloroethene	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	156-60-5	
Dichlorofluoromethane	ND	ug/kg	608	1	05/24/19 16:10	05/25/19 18:15	75-43-4	N2
1,2-Dichloropropane	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	78-87-5	
1,3-Dichloropropane	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	142-28-9	
2,2-Dichloropropane	ND	ug/kg	243	1	05/24/19 16:10	05/25/19 18:15	594-20-7	
1,1-Dichloropropene	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	243	1	05/24/19 16:10	05/25/19 18:15	60-29-7	
Ethylbenzene	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	304	1	05/24/19 16:10	05/25/19 18:15	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	98-82-8	
p-Isopropyltoluene	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	99-87-6	
Methylene Chloride	ND	ug/kg	243	1	05/24/19 16:10	05/25/19 18:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	304	1	05/24/19 16:10	05/25/19 18:15	108-10-1	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: SP-3 **Lab ID: 10475470018** Collected: 05/17/19 15:42 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B	Preparation Method: EPA 5035/5030B						
Methyl-tert-butyl ether	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	1634-04-4	
Naphthalene	ND	ug/kg	243	1	05/24/19 16:10	05/25/19 18:15	91-20-3	
n-Propylbenzene	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	103-65-1	
Styrene	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	79-34-5	
Tetrachloroethene	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	127-18-4	
Tetrahydrofuran	ND	ug/kg	2430	1	05/24/19 16:10	05/25/19 18:15	109-99-9	
Toluene	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	79-00-5	
Trichloroethene	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	79-01-6	
Trichlorofluoromethane	ND	ug/kg	243	1	05/24/19 16:10	05/25/19 18:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	243	1	05/24/19 16:10	05/25/19 18:15	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	243	1	05/24/19 16:10	05/25/19 18:15	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	60.8	1	05/24/19 16:10	05/25/19 18:15	108-67-8	
Vinyl chloride	ND	ug/kg	24.3	1	05/24/19 16:10	05/25/19 18:15	75-01-4	
Xylene (Total)	ND	ug/kg	182	1	05/24/19 16:10	05/25/19 18:15	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%.	75-125	1	05/24/19 16:10	05/25/19 18:15	17060-07-0	
Toluene-d8 (S)	97	%.	75-125	1	05/24/19 16:10	05/25/19 18:15	2037-26-5	
4-Bromofluorobenzene (S)	97	%.	75-125	1	05/24/19 16:10	05/25/19 18:15	460-00-4	

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: SP-4 **Lab ID: 10475470019** Collected: 05/17/19 15:58 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Silica Gel	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
WDRO C10-C28	ND	mg/kg	10.2	1	05/21/19 20:00	05/23/19 22:54		
Surrogates								
n-Triacontane (S)	103	%.	44-143	1	05/21/19 20:00	05/23/19 22:54	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil							
Gasoline Range Organics	ND	mg/kg	12.2	1	05/28/19 17:09	05/31/19 01:44		
Surrogates								
a,a,a-Trifluorotoluene (S)	99	%.	80-150	1	05/28/19 17:09	05/31/19 01:44	98-08-8	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050							
Arsenic	**2.8**	mg/kg	1.1	1	05/24/19 15:14	05/28/19 12:07	7440-38-2	
Barium	**58.4**	mg/kg	0.53	1	05/24/19 15:14	05/28/19 12:07	7440-39-3	
Cadmium	ND	mg/kg	0.16	1	05/24/19 15:14	05/28/19 12:07	7440-43-9	
Chromium	**15.5**	mg/kg	0.53	1	05/24/19 15:14	05/28/19 12:07	7440-47-3	
Lead	**6.2**	mg/kg	0.53	1	05/24/19 15:14	05/28/19 12:07	7439-92-1	
Selenium	ND	mg/kg	1.1	1	05/24/19 15:14	05/28/19 12:07	7782-49-2	
Silver	ND	mg/kg	0.53	1	05/24/19 15:14	05/28/19 12:07	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B							
Mercury	ND	mg/kg	0.021	1	05/24/19 16:31	05/28/19 12:31	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974							
Percent Moisture	**11.9**	%	0.10	1		05/24/19 14:12		
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550							
Acenaphthene	ND	ug/kg	11.4	1	05/22/19 08:38	05/28/19 12:14	83-32-9	
Acenaphthylene	ND	ug/kg	11.4	1	05/22/19 08:38	05/28/19 12:14	208-96-8	
Anthracene	ND	ug/kg	11.4	1	05/22/19 08:38	05/28/19 12:14	120-12-7	
Benzo(a)anthracene	**27.8**	ug/kg	11.4	1	05/22/19 08:38	05/28/19 12:14	56-55-3	
Benzo(a)pyrene	**39.7**	ug/kg	11.4	1	05/22/19 08:38	05/28/19 12:14	50-32-8	
Benzo(b)fluoranthene	**59.5**	ug/kg	11.4	1	05/22/19 08:38	05/28/19 12:14	205-99-2	
Benzo(g,h,i)perylene	**41.9**	ug/kg	11.4	1	05/22/19 08:38	05/28/19 12:14	191-24-2	
Benzo(k)fluoranthene	**27.1**	ug/kg	11.4	1	05/22/19 08:38	05/28/19 12:14	207-08-9	
Chrysene	**47.4**	ug/kg	11.4	1	05/22/19 08:38	05/28/19 12:14	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	11.4	1	05/22/19 08:38	05/28/19 12:14	53-70-3	
Fluoranthene	**87.6**	ug/kg	11.4	1	05/22/19 08:38	05/28/19 12:14	206-44-0	
Fluorene	ND	ug/kg	11.4	1	05/22/19 08:38	05/28/19 12:14	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	11.4	1	05/22/19 08:38	05/28/19 12:14	193-39-5	
Naphthalene	ND	ug/kg	11.4	1	05/22/19 08:38	05/28/19 12:14	91-20-3	
Phenanthrene	**40.9**	ug/kg	11.4	1	05/22/19 08:38	05/28/19 12:14	85-01-8	
Pyrene	**75.4**	ug/kg	11.4	1	05/22/19 08:38	05/28/19 12:14	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	66	%.	30-125	1	05/22/19 08:38	05/28/19 12:14	321-60-8	
p-Terphenyl-d14 (S)	61	%.	30-125	1	05/22/19 08:38	05/28/19 12:14	1718-51-0	

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Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: SP-4 **Lab ID: 10475470019** Collected: 05/17/19 15:58 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Acetone	ND	ug/kg	1150	1	05/24/19 16:10	05/25/19 18:36	67-64-1	
Allyl chloride	ND	ug/kg	230	1	05/24/19 16:10	05/25/19 18:36	107-05-1	
Benzene	ND	ug/kg	23.0	1	05/24/19 16:10	05/25/19 18:36	71-43-2	
Bromobenzene	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	108-86-1	
Bromochloromethane	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	74-97-5	
Bromodichloromethane	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	75-27-4	
Bromoform	ND	ug/kg	230	1	05/24/19 16:10	05/25/19 18:36	75-25-2	
Bromomethane	ND	ug/kg	574	1	05/24/19 16:10	05/25/19 18:36	74-83-9	
2-Butanone (MEK)	ND	ug/kg	287	1	05/24/19 16:10	05/25/19 18:36	78-93-3	
n-Butylbenzene	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	104-51-8	
sec-Butylbenzene	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	135-98-8	
tert-Butylbenzene	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	98-06-6	
Carbon tetrachloride	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	56-23-5	
Chlorobenzene	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	108-90-7	
Chloroethane	ND	ug/kg	574	1	05/24/19 16:10	05/25/19 18:36	75-00-3	
Chloroform	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	67-66-3	
Chloromethane	ND	ug/kg	230	1	05/24/19 16:10	05/25/19 18:36	74-87-3	
2-Chlorotoluene	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	95-49-8	
4-Chlorotoluene	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	574	1	05/24/19 16:10	05/25/19 18:36	96-12-8	
Dibromochloromethane	ND	ug/kg	230	1	05/24/19 16:10	05/25/19 18:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	106-93-4	
Dibromomethane	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	230	1	05/24/19 16:10	05/25/19 18:36	75-71-8	
1,1-Dichloroethane	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	75-34-3	
1,2-Dichloroethane	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	107-06-2	
1,1-Dichloroethene	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	156-60-5	
Dichlorofluoromethane	ND	ug/kg	574	1	05/24/19 16:10	05/25/19 18:36	75-43-4	N2
1,2-Dichloropropane	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	78-87-5	
1,3-Dichloropropane	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	142-28-9	
2,2-Dichloropropane	ND	ug/kg	230	1	05/24/19 16:10	05/25/19 18:36	594-20-7	
1,1-Dichloropropene	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	230	1	05/24/19 16:10	05/25/19 18:36	60-29-7	
Ethylbenzene	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	287	1	05/24/19 16:10	05/25/19 18:36	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	98-82-8	
p-Isopropyltoluene	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	99-87-6	
Methylene Chloride	ND	ug/kg	230	1	05/24/19 16:10	05/25/19 18:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	287	1	05/24/19 16:10	05/25/19 18:36	108-10-1	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: SP-4 **Lab ID: 10475470019** Collected: 05/17/19 15:58 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B	Preparation Method: EPA 5035/5030B						
Methyl-tert-butyl ether	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	1634-04-4	
Naphthalene	ND	ug/kg	230	1	05/24/19 16:10	05/25/19 18:36	91-20-3	
n-Propylbenzene	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	103-65-1	
Styrene	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	79-34-5	
Tetrachloroethene	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	127-18-4	
Tetrahydrofuran	ND	ug/kg	2300	1	05/24/19 16:10	05/25/19 18:36	109-99-9	
Toluene	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	79-00-5	
Trichloroethene	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	79-01-6	
Trichlorofluoromethane	ND	ug/kg	230	1	05/24/19 16:10	05/25/19 18:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	230	1	05/24/19 16:10	05/25/19 18:36	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	230	1	05/24/19 16:10	05/25/19 18:36	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	57.4	1	05/24/19 16:10	05/25/19 18:36	108-67-8	
Vinyl chloride	ND	ug/kg	23.0	1	05/24/19 16:10	05/25/19 18:36	75-01-4	
Xylene (Total)	ND	ug/kg	172	1	05/24/19 16:10	05/25/19 18:36	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%.	75-125	1	05/24/19 16:10	05/25/19 18:36	17060-07-0	
Toluene-d8 (S)	97	%.	75-125	1	05/24/19 16:10	05/25/19 18:36	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125	1	05/24/19 16:10	05/25/19 18:36	460-00-4	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: SP-5 **Lab ID: 10475470020** Collected: 05/17/19 16:19 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Silica Gel	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
WDRO C10-C28	ND	mg/kg	11.0	1	05/21/19 20:00	05/23/19 23:41		
Surrogates								
n-Triacontane (S)	93	%.	44-143	1	05/21/19 20:00	05/23/19 23:41	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil							
Gasoline Range Organics	ND	mg/kg	13.7	1	05/28/19 17:09	05/31/19 02:10		
Surrogates								
a,a,a-Trifluorotoluene (S)	98	%.	80-150	1	05/28/19 17:09	05/31/19 02:10	98-08-8	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050							
Arsenic	**3.9**	mg/kg	1.2	1	05/24/19 15:14	05/28/19 12:09	7440-38-2	
Barium	**95.6**	mg/kg	0.59	1	05/24/19 15:14	05/28/19 12:09	7440-39-3	
Cadmium	ND	mg/kg	0.18	1	05/24/19 15:14	05/28/19 12:09	7440-43-9	
Chromium	**18.8**	mg/kg	0.59	1	05/24/19 15:14	05/28/19 12:09	7440-47-3	
Lead	**9.6**	mg/kg	0.59	1	05/24/19 15:14	05/28/19 12:09	7439-92-1	
Selenium	ND	mg/kg	1.2	1	05/24/19 15:14	05/28/19 12:09	7782-49-2	
Silver	ND	mg/kg	0.59	1	05/24/19 15:14	05/28/19 12:09	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B							
Mercury	**0.025**	mg/kg	0.023	1	05/24/19 16:31	05/28/19 12:33	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974							
Percent Moisture	**20.2**	%	0.10	1		05/24/19 14:12		
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550							
Acenaphthene	ND	ug/kg	12.5	1	05/22/19 08:38	05/28/19 12:39	83-32-9	
Acenaphthylene	ND	ug/kg	12.5	1	05/22/19 08:38	05/28/19 12:39	208-96-8	
Anthracene	ND	ug/kg	12.5	1	05/22/19 08:38	05/28/19 12:39	120-12-7	
Benzo(a)anthracene	ND	ug/kg	12.5	1	05/22/19 08:38	05/28/19 12:39	56-55-3	
Benzo(a)pyrene	ND	ug/kg	12.5	1	05/22/19 08:38	05/28/19 12:39	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	12.5	1	05/22/19 08:38	05/28/19 12:39	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	12.5	1	05/22/19 08:38	05/28/19 12:39	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	12.5	1	05/22/19 08:38	05/28/19 12:39	207-08-9	
Chrysene	ND	ug/kg	12.5	1	05/22/19 08:38	05/28/19 12:39	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	12.5	1	05/22/19 08:38	05/28/19 12:39	53-70-3	
Fluoranthene	ND	ug/kg	12.5	1	05/22/19 08:38	05/28/19 12:39	206-44-0	
Fluorene	ND	ug/kg	12.5	1	05/22/19 08:38	05/28/19 12:39	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	12.5	1	05/22/19 08:38	05/28/19 12:39	193-39-5	
Naphthalene	ND	ug/kg	12.5	1	05/22/19 08:38	05/28/19 12:39	91-20-3	
Phenanthrene	ND	ug/kg	12.5	1	05/22/19 08:38	05/28/19 12:39	85-01-8	
Pyrene	ND	ug/kg	12.5	1	05/22/19 08:38	05/28/19 12:39	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	60	%.	30-125	1	05/22/19 08:38	05/28/19 12:39	321-60-8	
p-Terphenyl-d14 (S)	60	%.	30-125	1	05/22/19 08:38	05/28/19 12:39	1718-51-0	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: SP-5 **Lab ID: 10475470020** Collected: 05/17/19 16:19 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B	Preparation Method: EPA 5035/5030B						
Acetone	ND	ug/kg	1350	1	05/24/19 16:10	05/25/19 18:58	67-64-1	
Allyl chloride	ND	ug/kg	271	1	05/24/19 16:10	05/25/19 18:58	107-05-1	
Benzene	ND	ug/kg	27.1	1	05/24/19 16:10	05/25/19 18:58	71-43-2	
Bromobenzene	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	108-86-1	
Bromochloromethane	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	74-97-5	
Bromodichloromethane	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	75-27-4	
Bromoform	ND	ug/kg	271	1	05/24/19 16:10	05/25/19 18:58	75-25-2	
Bromomethane	ND	ug/kg	677	1	05/24/19 16:10	05/25/19 18:58	74-83-9	
2-Butanone (MEK)	ND	ug/kg	338	1	05/24/19 16:10	05/25/19 18:58	78-93-3	
n-Butylbenzene	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	104-51-8	
sec-Butylbenzene	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	135-98-8	
tert-Butylbenzene	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	98-06-6	
Carbon tetrachloride	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	56-23-5	
Chlorobenzene	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	108-90-7	
Chloroethane	ND	ug/kg	677	1	05/24/19 16:10	05/25/19 18:58	75-00-3	
Chloroform	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	67-66-3	
Chloromethane	ND	ug/kg	271	1	05/24/19 16:10	05/25/19 18:58	74-87-3	
2-Chlorotoluene	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	95-49-8	
4-Chlorotoluene	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	677	1	05/24/19 16:10	05/25/19 18:58	96-12-8	
Dibromochloromethane	ND	ug/kg	271	1	05/24/19 16:10	05/25/19 18:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	106-93-4	
Dibromomethane	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	271	1	05/24/19 16:10	05/25/19 18:58	75-71-8	
1,1-Dichloroethane	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	75-34-3	
1,2-Dichloroethane	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	107-06-2	
1,1-Dichloroethene	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	156-60-5	
Dichlorofluoromethane	ND	ug/kg	677	1	05/24/19 16:10	05/25/19 18:58	75-43-4	N2
1,2-Dichloropropane	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	78-87-5	
1,3-Dichloropropane	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	142-28-9	
2,2-Dichloropropane	ND	ug/kg	271	1	05/24/19 16:10	05/25/19 18:58	594-20-7	
1,1-Dichloropropene	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	271	1	05/24/19 16:10	05/25/19 18:58	60-29-7	
Ethylbenzene	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	338	1	05/24/19 16:10	05/25/19 18:58	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	98-82-8	
p-Isopropyltoluene	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	99-87-6	
Methylene Chloride	ND	ug/kg	271	1	05/24/19 16:10	05/25/19 18:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	338	1	05/24/19 16:10	05/25/19 18:58	108-10-1	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: SP-5 **Lab ID: 10475470020** Collected: 05/17/19 16:19 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B	Preparation Method: EPA 5035/5030B						
Methyl-tert-butyl ether	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	1634-04-4	
Naphthalene	ND	ug/kg	271	1	05/24/19 16:10	05/25/19 18:58	91-20-3	
n-Propylbenzene	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	103-65-1	
Styrene	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	79-34-5	
Tetrachloroethene	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	127-18-4	
Tetrahydrofuran	ND	ug/kg	2710	1	05/24/19 16:10	05/25/19 18:58	109-99-9	
Toluene	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	79-00-5	
Trichloroethene	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	79-01-6	
Trichlorofluoromethane	ND	ug/kg	271	1	05/24/19 16:10	05/25/19 18:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	271	1	05/24/19 16:10	05/25/19 18:58	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	271	1	05/24/19 16:10	05/25/19 18:58	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	67.7	1	05/24/19 16:10	05/25/19 18:58	108-67-8	
Vinyl chloride	ND	ug/kg	27.1	1	05/24/19 16:10	05/25/19 18:58	75-01-4	
Xylene (Total)	ND	ug/kg	203	1	05/24/19 16:10	05/25/19 18:58	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%.	75-125	1	05/24/19 16:10	05/25/19 18:58	17060-07-0	
Toluene-d8 (S)	95	%.	75-125	1	05/24/19 16:10	05/25/19 18:58	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125	1	05/24/19 16:10	05/25/19 18:58	460-00-4	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: SP-6 **Lab ID: 10475470021** Collected: 05/17/19 16:44 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Silica Gel	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
WDRO C10-C28	ND	mg/kg	11.4	1	05/21/19 20:00	05/23/19 23:01		
Surrogates								
n-Triacontane (S)	94	%.	44-143	1	05/21/19 20:00	05/23/19 23:01	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil							
Gasoline Range Organics	ND	mg/kg	11.6	1	05/28/19 17:09	05/31/19 07:23		
Surrogates								
a,a,a-Trifluorotoluene (S)	99	%.	80-150	1	05/28/19 17:09	05/31/19 07:23	98-08-8	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050							
Arsenic	**3.2**	mg/kg	1.1	1	05/24/19 15:14	05/28/19 12:10	7440-38-2	
Barium	**77.4**	mg/kg	0.55	1	05/24/19 15:14	05/28/19 12:10	7440-39-3	
Cadmium	ND	mg/kg	0.17	1	05/24/19 15:14	05/28/19 12:10	7440-43-9	
Chromium	**37.8**	mg/kg	0.55	1	05/24/19 15:14	05/28/19 12:10	7440-47-3	
Lead	**6.2**	mg/kg	0.55	1	05/24/19 15:14	05/28/19 12:10	7439-92-1	
Selenium	ND	mg/kg	1.1	1	05/24/19 15:14	05/28/19 12:10	7782-49-2	
Silver	ND	mg/kg	0.55	1	05/24/19 15:14	05/28/19 12:10	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B							
Mercury	ND	mg/kg	0.023	1	05/24/19 16:31	05/28/19 12:35	7439-97-6	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974							
Percent Moisture	**15.2**	%	0.10	1		05/24/19 14:12		
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550							
Acenaphthene	ND	ug/kg	11.8	1	05/23/19 09:00	05/24/19 16:41	83-32-9	
Acenaphthylene	ND	ug/kg	11.8	1	05/23/19 09:00	05/24/19 16:41	208-96-8	
Anthracene	ND	ug/kg	11.8	1	05/23/19 09:00	05/24/19 16:41	120-12-7	
Benzo(a)anthracene	**22.5**	ug/kg	11.8	1	05/23/19 09:00	05/24/19 16:41	56-55-3	
Benzo(a)pyrene	**25.4**	ug/kg	11.8	1	05/23/19 09:00	05/24/19 16:41	50-32-8	
Benzo(b)fluoranthene	**39.5**	ug/kg	11.8	1	05/23/19 09:00	05/24/19 16:41	205-99-2	
Benzo(g,h,i)perylene	**25.3**	ug/kg	11.8	1	05/23/19 09:00	05/24/19 16:41	191-24-2	
Benzo(k)fluoranthene	**15.0**	ug/kg	11.8	1	05/23/19 09:00	05/24/19 16:41	207-08-9	
Chrysene	**28.6**	ug/kg	11.8	1	05/23/19 09:00	05/24/19 16:41	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	11.8	1	05/23/19 09:00	05/24/19 16:41	53-70-3	
Fluoranthene	**56.5**	ug/kg	11.8	1	05/23/19 09:00	05/24/19 16:41	206-44-0	
Fluorene	ND	ug/kg	11.8	1	05/23/19 09:00	05/24/19 16:41	86-73-7	
Indeno(1,2,3-cd)pyrene	**16.4**	ug/kg	11.8	1	05/23/19 09:00	05/24/19 16:41	193-39-5	
Naphthalene	ND	ug/kg	11.8	1	05/23/19 09:00	05/24/19 16:41	91-20-3	
Phenanthrene	**27.2**	ug/kg	11.8	1	05/23/19 09:00	05/24/19 16:41	85-01-8	
Pyrene	**45.7**	ug/kg	11.8	1	05/23/19 09:00	05/24/19 16:41	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	83	%.	30-125	1	05/23/19 09:00	05/24/19 16:41	321-60-8	
p-Terphenyl-d14 (S)	78	%.	30-125	1	05/23/19 09:00	05/24/19 16:41	1718-51-0	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: SP-6 **Lab ID: 10475470021** Collected: 05/17/19 16:44 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Acetone	ND	ug/kg	1120	1	05/24/19 16:10	05/25/19 19:20	67-64-1	
Allyl chloride	ND	ug/kg	225	1	05/24/19 16:10	05/25/19 19:20	107-05-1	
Benzene	ND	ug/kg	22.5	1	05/24/19 16:10	05/25/19 19:20	71-43-2	
Bromobenzene	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	108-86-1	
Bromochloromethane	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	74-97-5	
Bromodichloromethane	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	75-27-4	
Bromoform	ND	ug/kg	225	1	05/24/19 16:10	05/25/19 19:20	75-25-2	
Bromomethane	ND	ug/kg	562	1	05/24/19 16:10	05/25/19 19:20	74-83-9	
2-Butanone (MEK)	ND	ug/kg	281	1	05/24/19 16:10	05/25/19 19:20	78-93-3	
n-Butylbenzene	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	104-51-8	
sec-Butylbenzene	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	135-98-8	
tert-Butylbenzene	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	98-06-6	
Carbon tetrachloride	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	56-23-5	
Chlorobenzene	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	108-90-7	
Chloroethane	ND	ug/kg	562	1	05/24/19 16:10	05/25/19 19:20	75-00-3	
Chloroform	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	67-66-3	
Chloromethane	ND	ug/kg	225	1	05/24/19 16:10	05/25/19 19:20	74-87-3	
2-Chlorotoluene	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	95-49-8	
4-Chlorotoluene	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	562	1	05/24/19 16:10	05/25/19 19:20	96-12-8	
Dibromochloromethane	ND	ug/kg	225	1	05/24/19 16:10	05/25/19 19:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	106-93-4	
Dibromomethane	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	225	1	05/24/19 16:10	05/25/19 19:20	75-71-8	
1,1-Dichloroethane	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	75-34-3	
1,2-Dichloroethane	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	107-06-2	
1,1-Dichloroethene	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	156-60-5	
Dichlorofluoromethane	ND	ug/kg	562	1	05/24/19 16:10	05/25/19 19:20	75-43-4	N2
1,2-Dichloropropane	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	78-87-5	
1,3-Dichloropropane	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	142-28-9	
2,2-Dichloropropane	ND	ug/kg	225	1	05/24/19 16:10	05/25/19 19:20	594-20-7	
1,1-Dichloropropene	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	225	1	05/24/19 16:10	05/25/19 19:20	60-29-7	
Ethylbenzene	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	281	1	05/24/19 16:10	05/25/19 19:20	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	98-82-8	
p-Isopropyltoluene	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	99-87-6	
Methylene Chloride	ND	ug/kg	225	1	05/24/19 16:10	05/25/19 19:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	281	1	05/24/19 16:10	05/25/19 19:20	108-10-1	

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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: SP-6 **Lab ID: 10475470021** Collected: 05/17/19 16:44 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B	Preparation Method: EPA 5035/5030B						
Methyl-tert-butyl ether	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	1634-04-4	
Naphthalene	ND	ug/kg	225	1	05/24/19 16:10	05/25/19 19:20	91-20-3	
n-Propylbenzene	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	103-65-1	
Styrene	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	79-34-5	
Tetrachloroethene	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	127-18-4	
Tetrahydrofuran	ND	ug/kg	2250	1	05/24/19 16:10	05/25/19 19:20	109-99-9	
Toluene	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	79-00-5	
Trichloroethene	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	79-01-6	
Trichlorofluoromethane	ND	ug/kg	225	1	05/24/19 16:10	05/25/19 19:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	225	1	05/24/19 16:10	05/25/19 19:20	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	225	1	05/24/19 16:10	05/25/19 19:20	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	56.2	1	05/24/19 16:10	05/25/19 19:20	108-67-8	
Vinyl chloride	ND	ug/kg	22.5	1	05/24/19 16:10	05/25/19 19:20	75-01-4	
Xylene (Total)	ND	ug/kg	169	1	05/24/19 16:10	05/25/19 19:20	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%.	75-125	1	05/24/19 16:10	05/25/19 19:20	17060-07-0	
Toluene-d8 (S)	98	%.	75-125	1	05/24/19 16:10	05/25/19 19:20	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	75-125	1	05/24/19 16:10	05/25/19 19:20	460-00-4	

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: SL-Trip Blank **Lab ID: 10475470022** Collected: 05/17/19 00:00 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil							
Gasoline Range Organics	ND	mg/kg	10.0	1	05/28/19 17:09	05/31/19 03:02		
Surrogates								
a,a,a-Trifluorotoluene (S)	99	%.	80-150	1	05/28/19 17:09	05/31/19 03:02	98-08-8	
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Acetone	ND	ug/kg	1000	1	05/24/19 16:10	05/25/19 12:06	67-64-1	
Allyl chloride	ND	ug/kg	200	1	05/24/19 16:10	05/25/19 12:06	107-05-1	
Benzene	ND	ug/kg	20.0	1	05/24/19 16:10	05/25/19 12:06	71-43-2	
Bromobenzene	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	108-86-1	
Bromochloromethane	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	74-97-5	
Bromodichloromethane	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	75-27-4	
Bromoform	ND	ug/kg	200	1	05/24/19 16:10	05/25/19 12:06	75-25-2	
Bromomethane	ND	ug/kg	500	1	05/24/19 16:10	05/25/19 12:06	74-83-9	
2-Butanone (MEK)	ND	ug/kg	250	1	05/24/19 16:10	05/25/19 12:06	78-93-3	
n-Butylbenzene	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	104-51-8	
sec-Butylbenzene	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	135-98-8	
tert-Butylbenzene	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	98-06-6	
Carbon tetrachloride	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	56-23-5	
Chlorobenzene	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	108-90-7	
Chloroethane	ND	ug/kg	500	1	05/24/19 16:10	05/25/19 12:06	75-00-3	
Chloroform	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	67-66-3	
Chloromethane	ND	ug/kg	200	1	05/24/19 16:10	05/25/19 12:06	74-87-3	
2-Chlorotoluene	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	95-49-8	
4-Chlorotoluene	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	500	1	05/24/19 16:10	05/25/19 12:06	96-12-8	
Dibromochloromethane	ND	ug/kg	200	1	05/24/19 16:10	05/25/19 12:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	106-93-4	
Dibromomethane	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	200	1	05/24/19 16:10	05/25/19 12:06	75-71-8	
1,1-Dichloroethane	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	75-34-3	
1,2-Dichloroethane	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	107-06-2	
1,1-Dichloroethene	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	156-60-5	
Dichlorofluoromethane	ND	ug/kg	500	1	05/24/19 16:10	05/25/19 12:06	75-43-4	N2
1,2-Dichloropropane	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	78-87-5	
1,3-Dichloropropane	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	142-28-9	
2,2-Dichloropropane	ND	ug/kg	200	1	05/24/19 16:10	05/25/19 12:06	594-20-7	
1,1-Dichloropropene	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	200	1	05/24/19 16:10	05/25/19 12:06	60-29-7	
Ethylbenzene	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	100-41-4	

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: SL-Trip Blank **Lab ID: 10475470022** Collected: 05/17/19 00:00 Received: 05/17/19 18:20 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B	Preparation Method: EPA 5035/5030B						
Hexachloro-1,3-butadiene	ND	ug/kg	250	1	05/24/19 16:10	05/25/19 12:06	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	98-82-8	
p-Isopropyltoluene	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	99-87-6	
Methylene Chloride	ND	ug/kg	200	1	05/24/19 16:10	05/25/19 12:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	250	1	05/24/19 16:10	05/25/19 12:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	1634-04-4	
Naphthalene	ND	ug/kg	200	1	05/24/19 16:10	05/25/19 12:06	91-20-3	
n-Propylbenzene	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	103-65-1	
Styrene	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	79-34-5	
Tetrachloroethene	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	127-18-4	
Tetrahydrofuran	ND	ug/kg	2000	1	05/24/19 16:10	05/25/19 12:06	109-99-9	
Toluene	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	79-00-5	
Trichloroethene	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	79-01-6	
Trichlorofluoromethane	ND	ug/kg	200	1	05/24/19 16:10	05/25/19 12:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	200	1	05/24/19 16:10	05/25/19 12:06	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	200	1	05/24/19 16:10	05/25/19 12:06	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	50.0	1	05/24/19 16:10	05/25/19 12:06	108-67-8	
Vinyl chloride	ND	ug/kg	20.0	1	05/24/19 16:10	05/25/19 12:06	75-01-4	
Xylene (Total)	ND	ug/kg	150	1	05/24/19 16:10	05/25/19 12:06	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%.	75-125	1	05/24/19 16:10	05/25/19 12:06	17060-07-0	
Toluene-d8 (S)	97	%.	75-125	1	05/24/19 16:10	05/25/19 12:06	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125	1	05/24/19 16:10	05/25/19 12:06	460-00-4	

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
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ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: WT-Trip Blank **Lab ID: 10475470023** Collected: 05/17/19 00:00 Received: 05/17/19 18:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO							
Gasoline Range Organics	ND	ug/L	100	1		05/31/19 14:51		
Surrogates								
a,a,a-Trifluorotoluene (S)	97	%.	80-150	1		05/31/19 14:51	98-08-8	
8260B VOC	Analytical Method: EPA 8260B							
Acetone	ND	ug/L	20.0	1		05/29/19 12:23	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		05/29/19 12:23	107-05-1	
Benzene	ND	ug/L	1.0	1		05/29/19 12:23	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/29/19 12:23	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/29/19 12:23	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/29/19 12:23	75-27-4	
Bromoform	ND	ug/L	4.0	1		05/29/19 12:23	75-25-2	
Bromomethane	ND	ug/L	4.0	1		05/29/19 12:23	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/29/19 12:23	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/29/19 12:23	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/29/19 12:23	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/29/19 12:23	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		05/29/19 12:23	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/29/19 12:23	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/29/19 12:23	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/29/19 12:23	67-66-3	
Chloromethane	ND	ug/L	4.0	1		05/29/19 12:23	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/29/19 12:23	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/29/19 12:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		05/29/19 12:23	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/29/19 12:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/29/19 12:23	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		05/29/19 12:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/29/19 12:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/29/19 12:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/29/19 12:23	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/29/19 12:23	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/29/19 12:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/29/19 12:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/29/19 12:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/29/19 12:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/29/19 12:23	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		05/29/19 12:23	75-43-4	N2
1,2-Dichloropropane	ND	ug/L	4.0	1		05/29/19 12:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/29/19 12:23	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		05/29/19 12:23	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/29/19 12:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		05/29/19 12:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		05/29/19 12:23	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		05/29/19 12:23	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		05/29/19 12:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/29/19 12:23	87-68-3	

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1700 Elm Street - Suite 200
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(612)607-1700

ANALYTICAL RESULTS

Project: Pine City Airport
Pace Project No.: 10475470

Sample: WT-Trip Blank **Lab ID: 10475470023** Collected: 05/17/19 00:00 Received: 05/17/19 18:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B							
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/29/19 12:23	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/29/19 12:23	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		05/29/19 12:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/29/19 12:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/29/19 12:23	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		05/29/19 12:23	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/29/19 12:23	103-65-1	
Styrene	ND	ug/L	1.0	1		05/29/19 12:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/29/19 12:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/29/19 12:23	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/29/19 12:23	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/29/19 12:23	109-99-9	
Toluene	ND	ug/L	1.0	1		05/29/19 12:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/29/19 12:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/29/19 12:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/29/19 12:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/29/19 12:23	79-00-5	
Trichloroethene	ND	ug/L	0.40	1		05/29/19 12:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/29/19 12:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		05/29/19 12:23	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		05/29/19 12:23	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/29/19 12:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/29/19 12:23	108-67-8	
Vinyl chloride	ND	ug/L	0.20	1		05/29/19 12:23	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/29/19 12:23	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	106	%.	75-125	1		05/29/19 12:23	17060-07-0	HS
Toluene-d8 (S)	94	%.	75-125	1		05/29/19 12:23	2037-26-5	
4-Bromofluorobenzene (S)	97	%.	75-125	1		05/29/19 12:23	460-00-4	

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QUALITY CONTROL DATA

Project: Pine City Airport
Pace Project No.: 10475470

QC Batch: 608497 Analysis Method: WI MOD GRO
QC Batch Method: EPA 5030 Medium Soil Analysis Description: WIGRO Solid GCV
Associated Lab Samples: 10475470001, 10475470002, 10475470003

METHOD BLANK: 3289415 Matrix: Solid
Associated Lab Samples: 10475470001, 10475470002, 10475470003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	10.0	05/28/19 19:30	
a,a,a-Trifluorotoluene (S)	%.	99	80-150	05/28/19 19:30	

LABORATORY CONTROL SAMPLE & LCSD: 3289416 3289417

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	50	44.4	53.4	89	107	80-120	18	20	
a,a,a-Trifluorotoluene (S)	%.				99	99	80-150			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3290175 3290176

Parameter	Units	10474936024 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Gasoline Range Organics	mg/kg	ND	55.6	55.3	85.7	49.7	153	89	80-120	53	20	C0,M1, R1
a,a,a-Trifluorotoluene (S)	%.						100	99	80-150			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Pine City Airport
Pace Project No.: 10475470

QC Batch: 608555 | Analysis Method: WI MOD GRO
QC Batch Method: EPA 5030 Medium Soil | Analysis Description: WIGRO Solid GCV
Associated Lab Samples: 10475470004, 10475470005, 10475470006, 10475470008, 10475470016, 10475470017, 10475470018, 10475470019, 10475470020, 10475470021, 10475470022

METHOD BLANK: 3289585 | Matrix: Solid
Associated Lab Samples: 10475470004, 10475470005, 10475470006, 10475470008, 10475470016, 10475470017, 10475470018, 10475470019, 10475470020, 10475470021, 10475470022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	10.0	05/30/19 07:26	
a,a,a-Trifluorotoluene (S)	%.	98	80-150	05/30/19 07:26	

LABORATORY CONTROL SAMPLE & LCSD: 3289586 3289587

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	50	51.6	55.1	103	110	80-120	6	20	
a,a,a-Trifluorotoluene (S)	%.				99	98	80-150			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3290731 3290732

Parameter	Units	10476112006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Gasoline Range Organics	mg/kg	15.2	57.2	58	82.3	81.3	117	114	80-120	1	20	
a,a,a-Trifluorotoluene (S)	%.						99	99	80-150			

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QUALITY CONTROL DATA

Project: Pine City Airport
Pace Project No.: 10475470

QC Batch: 609052 | Analysis Method: WI MOD GRO
QC Batch Method: EPA 5030 Medium Soil | Analysis Description: WIGRO Solid GCV
Associated Lab Samples: 10475470007

METHOD BLANK: 3291590 | Matrix: Solid
Associated Lab Samples: 10475470007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	10.0	05/29/19 16:08	
a,a,a-Trifluorotoluene (S)	%.	99	80-150	05/29/19 16:08	

LABORATORY CONTROL SAMPLE & LCSD: 3291591 3291592

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	50	44.8	47.2	90	94	80-120	5	20	
a,a,a-Trifluorotoluene (S)	%.				97	100	80-150			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3291899 3291900

Parameter	Units	10475056010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Gasoline Range Organics	mg/kg	ND	53.9	54.9	69.5	59.8	127	108	80-120	15	20	M1
a,a,a-Trifluorotoluene (S)	%.						99	99	80-150			

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QUALITY CONTROL DATA

Project: Pine City Airport
Pace Project No.: 10475470

QC Batch: 609570 | Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO | Analysis Description: WIGRO GCV Water
Associated Lab Samples: 10475470009, 10475470010, 10475470011, 10475470012, 10475470013, 10475470014, 10475470015, 10475470023

METHOD BLANK: 3294289 | Matrix: Water
Associated Lab Samples: 10475470009, 10475470010, 10475470011, 10475470012, 10475470013, 10475470014, 10475470015, 10475470023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	ug/L	ND	100	05/31/19 09:21	
a,a,a-Trifluorotoluene (S)	%.	98	80-150	05/31/19 09:21	

LABORATORY CONTROL SAMPLE & LCSD: 3294290 3294291

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	ug/L	1000	936	866	94	87	80-120	8	20	
a,a,a-Trifluorotoluene (S)	%.				105	109	80-150			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3294436 3294437

Parameter	Units	10475470010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Gasoline Range Organics	ug/L	ND	1000	1000	1010	1280	97	125	80-120	24	20	G-,M1, R1
a,a,a-Trifluorotoluene (S)	%.						106	97	80-150			

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QUALITY CONTROL DATA

Project: Pine City Airport
Pace Project No.: 10475470

QC Batch: 606915 | Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A | Analysis Description: 7470A Mercury Water Dissolved
Associated Lab Samples: 10475470009, 10475470010, 10475470011, 10475470012, 10475470013, 10475470014, 10475470015

METHOD BLANK: 3280935 | Matrix: Water
Associated Lab Samples: 10475470009, 10475470010, 10475470011, 10475470012, 10475470013, 10475470014, 10475470015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	05/23/19 16:36	

LABORATORY CONTROL SAMPLE: 3280936

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.3	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3280937 3280938

Parameter	Units	10475203002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	5.4	5.2	107	104	80-120	3	20	

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QUALITY CONTROL DATA

Project: Pine City Airport
Pace Project No.: 10475470

QC Batch: 607840 | Analysis Method: EPA 7471B
QC Batch Method: EPA 7471B | Analysis Description: 7471B Mercury Solids
Associated Lab Samples: 10475470001, 10475470002, 10475470003, 10475470004, 10475470005, 10475470006, 10475470007, 10475470008, 10475470016, 10475470017, 10475470018, 10475470019, 10475470020, 10475470021

METHOD BLANK: 3285929 | Matrix: Solid
Associated Lab Samples: 10475470001, 10475470002, 10475470003, 10475470004, 10475470005, 10475470006, 10475470007, 10475470008, 10475470016, 10475470017, 10475470018, 10475470019, 10475470020, 10475470021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.019	05/28/19 11:49	

LABORATORY CONTROL SAMPLE: 3285930

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.48	0.47	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3285931 3285932

Parameter	Units	10475437003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.024	0.53	0.5	0.56	0.52	101	100	80-120	7	20	

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QUALITY CONTROL DATA

Project: Pine City Airport
Pace Project No.: 10475470

QC Batch: 607782 | Analysis Method: EPA 6010D
QC Batch Method: EPA 3050 | Analysis Description: 6010D Solids
Associated Lab Samples: 10475470001, 10475470002, 10475470003, 10475470004, 10475470005, 10475470006, 10475470007, 10475470008, 10475470016, 10475470017, 10475470018, 10475470019, 10475470020, 10475470021

METHOD BLANK: 3285692 | Matrix: Solid
Associated Lab Samples: 10475470001, 10475470002, 10475470003, 10475470004, 10475470005, 10475470006, 10475470007, 10475470008, 10475470016, 10475470017, 10475470018, 10475470019, 10475470020, 10475470021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	0.96	05/28/19 11:23	
Barium	mg/kg	ND	0.48	05/28/19 11:23	
Cadmium	mg/kg	ND	0.14	05/28/19 11:23	
Chromium	mg/kg	ND	0.48	05/28/19 11:23	
Lead	mg/kg	ND	0.48	05/28/19 11:23	
Selenium	mg/kg	ND	0.96	05/28/19 11:23	
Silver	mg/kg	ND	0.48	05/28/19 11:23	

LABORATORY CONTROL SAMPLE: 3285693

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	48.5	46.7	96	80-120	
Barium	mg/kg	48.5	50.9	105	80-120	
Cadmium	mg/kg	48.5	50.5	104	80-120	
Chromium	mg/kg	48.5	50.4	104	80-120	
Lead	mg/kg	48.5	50.1	103	80-120	
Selenium	mg/kg	48.5	44.2	91	80-120	
Silver	mg/kg	24.3	24.6	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3285694 3285695

Parameter	Units	10475437003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	5.2	51.9	56.6	49.3	52.2	85	83	75-125	6	20	
Barium	mg/kg	87.8	51.9	56.6	147	141	114	93	75-125	5	20	
Cadmium	mg/kg	ND	51.9	56.6	44.9	49.6	86	88	75-125	10	20	
Chromium	mg/kg	12.0	51.9	56.6	58.7	62.7	90	90	75-125	7	20	
Lead	mg/kg	8.6	51.9	56.6	53.1	57.4	86	86	75-125	8	20	
Selenium	mg/kg	ND	51.9	56.6	40.0	44.8	77	79	75-125	11	20	
Silver	mg/kg	ND	25.9	28.3	23.3	25.8	90	91	75-125	10	20	

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QUALITY CONTROL DATA

Project: Pine City Airport
Pace Project No.: 10475470

QC Batch: 607808 | Analysis Method: EPA 6010D
QC Batch Method: EPA 3010 | Analysis Description: 6010D Water Dissolved
Associated Lab Samples: 10475470009, 10475470010, 10475470011, 10475470012, 10475470013, 10475470014, 10475470015

METHOD BLANK: 3285795 | Matrix: Water
Associated Lab Samples: 10475470009, 10475470010, 10475470011, 10475470012, 10475470013, 10475470014, 10475470015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	ND	20.0	05/24/19 15:18	
Barium, Dissolved	ug/L	ND	10.0	05/24/19 15:18	
Cadmium, Dissolved	ug/L	ND	3.0	05/24/19 15:18	
Chromium, Dissolved	ug/L	ND	10.0	05/24/19 15:18	
Lead, Dissolved	ug/L	ND	10.0	05/24/19 15:18	
Selenium, Dissolved	ug/L	ND	20.0	05/24/19 15:18	
Silver, Dissolved	ug/L	ND	10.0	05/24/19 15:18	

LABORATORY CONTROL SAMPLE: 3285796

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	1000	1030	103	80-120	
Barium, Dissolved	ug/L	1000	1050	105	80-120	
Cadmium, Dissolved	ug/L	1000	1040	104	80-120	
Chromium, Dissolved	ug/L	1000	1030	103	80-120	
Lead, Dissolved	ug/L	1000	1030	103	80-120	
Selenium, Dissolved	ug/L	1000	1050	105	80-120	
Silver, Dissolved	ug/L	500	508	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3285797 3285798

Parameter	Units	10475470009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	ug/L	ND	1000	1000	1060	1070	106	107	75-125	1	20	
Barium, Dissolved	ug/L	73.8	1000	1000	1120	1130	105	106	75-125	1	20	
Cadmium, Dissolved	ug/L	ND	1000	1000	1030	1040	103	104	75-125	1	20	
Chromium, Dissolved	ug/L	ND	1000	1000	1030	1040	103	104	75-125	1	20	
Lead, Dissolved	ug/L	ND	1000	1000	1030	1050	103	105	75-125	1	20	
Selenium, Dissolved	ug/L	ND	1000	1000	1080	1090	108	109	75-125	1	20	
Silver, Dissolved	ug/L	ND	500	500	531	535	106	107	75-125	1	20	

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QUALITY CONTROL DATA

Project: Pine City Airport
Pace Project No.: 10475470

QC Batch: 608191 | Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 | Analysis Description: Dry Weight / %M by ASTM D2974
Associated Lab Samples: 10475470001, 10475470002, 10475470003, 10475470004, 10475470005, 10475470006, 10475470007, 10475470008, 10475470016, 10475470017

SAMPLE DUPLICATE: 3287462

Parameter	Units	10475279014 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.3	10.7	5	30	

SAMPLE DUPLICATE: 3287463

Parameter	Units	10475470017 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	9.1	8.5	6	30	

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QUALITY CONTROL DATA

Project: Pine City Airport
Pace Project No.: 10475470

QC Batch: 608193
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Associated Lab Samples: 10475470018

SAMPLE DUPLICATE: 3287466

Parameter	Units	10474936001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	22.7	22.9	1	30	

SAMPLE DUPLICATE: 3287467

Parameter	Units	10475470018 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	10.7	11.1	3	30	

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QUALITY CONTROL DATA

Project: Pine City Airport
Pace Project No.: 10475470

QC Batch: 608196 | Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 | Analysis Description: Dry Weight / %M by ASTM D2974
Associated Lab Samples: 10475470019, 10475470020, 10475470021

SAMPLE DUPLICATE: 3287471

Parameter	Units	10475470019 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.9	14.2	17	30	

SAMPLE DUPLICATE: 3287472

Parameter	Units	10475608011 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.4	10.7	7	30	

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QUALITY CONTROL DATA

Project: Pine City Airport
Pace Project No.: 10475470

QC Batch: 608364 | Analysis Method: EPA 8260B
QC Batch Method: EPA 5035/5030B | Analysis Description: 8260B MSV 5030 Med Level
Associated Lab Samples: 10475470001, 10475470002, 10475470003, 10475470004, 10475470005, 10475470006, 10475470007, 10475470008, 10475470016, 10475470017, 10475470018, 10475470019, 10475470020, 10475470021, 10475470022

METHOD BLANK: 3288261 | Matrix: Solid
Associated Lab Samples: 10475470001, 10475470002, 10475470003, 10475470004, 10475470005, 10475470006, 10475470007, 10475470008, 10475470016, 10475470017, 10475470018, 10475470019, 10475470020, 10475470021, 10475470022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	50.0	05/25/19 11:44	
1,1,1-Trichloroethane	ug/kg	ND	50.0	05/25/19 11:44	
1,1,2,2-Tetrachloroethane	ug/kg	ND	50.0	05/25/19 11:44	
1,1,2-Trichloroethane	ug/kg	ND	50.0	05/25/19 11:44	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	200	05/25/19 11:44	
1,1-Dichloroethane	ug/kg	ND	50.0	05/25/19 11:44	
1,1-Dichloroethene	ug/kg	ND	50.0	05/25/19 11:44	
1,1-Dichloropropene	ug/kg	ND	50.0	05/25/19 11:44	
1,2,3-Trichlorobenzene	ug/kg	ND	50.0	05/25/19 11:44	
1,2,3-Trichloropropane	ug/kg	ND	200	05/25/19 11:44	
1,2,4-Trichlorobenzene	ug/kg	ND	50.0	05/25/19 11:44	
1,2,4-Trimethylbenzene	ug/kg	ND	50.0	05/25/19 11:44	
1,2-Dibromo-3-chloropropane	ug/kg	ND	500	05/25/19 11:44	
1,2-Dibromoethane (EDB)	ug/kg	ND	50.0	05/25/19 11:44	
1,2-Dichlorobenzene	ug/kg	ND	50.0	05/25/19 11:44	
1,2-Dichloroethane	ug/kg	ND	50.0	05/25/19 11:44	
1,2-Dichloropropane	ug/kg	ND	50.0	05/25/19 11:44	
1,3,5-Trimethylbenzene	ug/kg	ND	50.0	05/25/19 11:44	
1,3-Dichlorobenzene	ug/kg	ND	50.0	05/25/19 11:44	
1,3-Dichloropropane	ug/kg	ND	50.0	05/25/19 11:44	
1,4-Dichlorobenzene	ug/kg	ND	50.0	05/25/19 11:44	
2,2-Dichloropropane	ug/kg	ND	200	05/25/19 11:44	
2-Butanone (MEK)	ug/kg	ND	250	05/25/19 11:44	
2-Chlorotoluene	ug/kg	ND	50.0	05/25/19 11:44	
4-Chlorotoluene	ug/kg	ND	50.0	05/25/19 11:44	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	250	05/25/19 11:44	
Acetone	ug/kg	ND	1000	05/25/19 11:44	
Allyl chloride	ug/kg	ND	200	05/25/19 11:44	
Benzene	ug/kg	ND	20.0	05/25/19 11:44	
Bromobenzene	ug/kg	ND	50.0	05/25/19 11:44	
Bromochloromethane	ug/kg	ND	50.0	05/25/19 11:44	
Bromodichloromethane	ug/kg	ND	50.0	05/25/19 11:44	
Bromoform	ug/kg	ND	200	05/25/19 11:44	
Bromomethane	ug/kg	ND	500	05/25/19 11:44	
Carbon tetrachloride	ug/kg	ND	50.0	05/25/19 11:44	
Chlorobenzene	ug/kg	ND	50.0	05/25/19 11:44	
Chloroethane	ug/kg	ND	500	05/25/19 11:44	
Chloroform	ug/kg	ND	50.0	05/25/19 11:44	

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QUALITY CONTROL DATA

Project: Pine City Airport
Pace Project No.: 10475470

METHOD BLANK: 3288261 Matrix: Solid

Associated Lab Samples: 10475470001, 10475470002, 10475470003, 10475470004, 10475470005, 10475470006, 10475470007, 10475470008, 10475470016, 10475470017, 10475470018, 10475470019, 10475470020, 10475470021, 10475470022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	ug/kg	ND	200	05/25/19 11:44	
cis-1,2-Dichloroethene	ug/kg	ND	50.0	05/25/19 11:44	
cis-1,3-Dichloropropene	ug/kg	ND	50.0	05/25/19 11:44	
Dibromochloromethane	ug/kg	ND	200	05/25/19 11:44	
Dibromomethane	ug/kg	ND	50.0	05/25/19 11:44	
Dichlorodifluoromethane	ug/kg	ND	200	05/25/19 11:44	
Dichlorofluoromethane	ug/kg	ND	500	05/25/19 11:44	N2
Diethyl ether (Ethyl ether)	ug/kg	ND	200	05/25/19 11:44	
Ethylbenzene	ug/kg	ND	50.0	05/25/19 11:44	
Hexachloro-1,3-butadiene	ug/kg	ND	250	05/25/19 11:44	
Isopropylbenzene (Cumene)	ug/kg	ND	50.0	05/25/19 11:44	
Methyl-tert-butyl ether	ug/kg	ND	50.0	05/25/19 11:44	
Methylene Chloride	ug/kg	ND	200	05/25/19 11:44	
n-Butylbenzene	ug/kg	ND	50.0	05/25/19 11:44	
n-Propylbenzene	ug/kg	ND	50.0	05/25/19 11:44	
Naphthalene	ug/kg	ND	200	05/25/19 11:44	
p-Isopropyltoluene	ug/kg	ND	50.0	05/25/19 11:44	
sec-Butylbenzene	ug/kg	ND	50.0	05/25/19 11:44	
Styrene	ug/kg	ND	50.0	05/25/19 11:44	
tert-Butylbenzene	ug/kg	ND	50.0	05/25/19 11:44	
Tetrachloroethene	ug/kg	ND	50.0	05/25/19 11:44	
Tetrahydrofuran	ug/kg	ND	2000	05/25/19 11:44	
Toluene	ug/kg	ND	50.0	05/25/19 11:44	
trans-1,2-Dichloroethene	ug/kg	ND	50.0	05/25/19 11:44	
trans-1,3-Dichloropropene	ug/kg	ND	50.0	05/25/19 11:44	
Trichloroethene	ug/kg	ND	50.0	05/25/19 11:44	
Trichlorofluoromethane	ug/kg	ND	200	05/25/19 11:44	
Vinyl chloride	ug/kg	ND	20.0	05/25/19 11:44	
Xylene (Total)	ug/kg	ND	150	05/25/19 11:44	
1,2-Dichloroethane-d4 (S)	%.	100	75-125	05/25/19 11:44	
4-Bromofluorobenzene (S)	%.	98	75-125	05/25/19 11:44	
Toluene-d8 (S)	%.	97	75-125	05/25/19 11:44	

LABORATORY CONTROL SAMPLE: 3288262

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	828	83	53-125	
1,1,1-Trichloroethane	ug/kg	1000	882	88	53-146	
1,1,2,2-Tetrachloroethane	ug/kg	1000	826	83	51-125	
1,1,2-Trichloroethane	ug/kg	1000	797	80	55-125	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	991	99	49-150	
1,1-Dichloroethane	ug/kg	1000	814	81	56-125	

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REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Pine City Airport
Pace Project No.: 10475470

LABORATORY CONTROL SAMPLE: 3288262

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/kg	1000	875	88	48-148	
1,1-Dichloropropene	ug/kg	1000	810	81	55-142	
1,2,3-Trichlorobenzene	ug/kg	1000	658	66	47-125	
1,2,3-Trichloropropane	ug/kg	1000	870	87	52-125	
1,2,4-Trichlorobenzene	ug/kg	1000	649	65	48-125	
1,2,4-Trimethylbenzene	ug/kg	1000	713	71	51-126	
1,2-Dibromo-3-chloropropane	ug/kg	2500	1920	77	50-125	
1,2-Dibromoethane (EDB)	ug/kg	1000	833	83	52-125	
1,2-Dichlorobenzene	ug/kg	1000	743	74	50-125	
1,2-Dichloroethane	ug/kg	1000	758	76	51-125	
1,2-Dichloropropane	ug/kg	1000	826	83	57-125	
1,3,5-Trimethylbenzene	ug/kg	1000	767	77	52-127	
1,3-Dichlorobenzene	ug/kg	1000	759	76	50-128	
1,3-Dichloropropane	ug/kg	1000	799	80	55-125	
1,4-Dichlorobenzene	ug/kg	1000	775	77	51-125	
2,2-Dichloropropane	ug/kg	1000	853	85	41-136	
2-Butanone (MEK)	ug/kg	5000	4130	83	43-125	
2-Chlorotoluene	ug/kg	1000	751	75	52-126	
4-Chlorotoluene	ug/kg	1000	759	76	53-126	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	4230	85	39-125	
Acetone	ug/kg	5000	4700	94	46-136	
Allyl chloride	ug/kg	1000	759	76	48-130	
Benzene	ug/kg	1000	773	77	48-125	
Bromobenzene	ug/kg	1000	792	79	51-125	
Bromochloromethane	ug/kg	1000	830	83	52-125	
Bromodichloromethane	ug/kg	1000	868	87	51-131	
Bromoform	ug/kg	1000	830	83	52-125	
Bromomethane	ug/kg	1000	862	86	30-150	
Carbon tetrachloride	ug/kg	1000	885	89	59-129	
Chlorobenzene	ug/kg	1000	785	78	54-125	
Chloroethane	ug/kg	1000	1070	107	61-132	CH
Chloroform	ug/kg	1000	782	78	52-125	
Chloromethane	ug/kg	1000	740	74	46-125	
cis-1,2-Dichloroethene	ug/kg	1000	809	81	54-127	
cis-1,3-Dichloropropene	ug/kg	1000	844	84	50-134	
Dibromochloromethane	ug/kg	1000	825	83	54-125	
Dibromomethane	ug/kg	1000	870	87	51-125	
Dichlorodifluoromethane	ug/kg	1000	707	71	42-125	
Dichlorofluoromethane	ug/kg	1000	840	84	30-150	N2
Diethyl ether (Ethyl ether)	ug/kg	1000	841	84	50-127	
Ethylbenzene	ug/kg	1000	770	77	51-125	
Hexachloro-1,3-butadiene	ug/kg	1000	669	67	41-133	
Isopropylbenzene (Cumene)	ug/kg	1000	773	77	54-134	
Methyl-tert-butyl ether	ug/kg	1000	814	81	53-125	
Methylene Chloride	ug/kg	1000	804	80	48-125	
n-Butylbenzene	ug/kg	1000	612	61	49-135	
n-Propylbenzene	ug/kg	1000	727	73	55-129	

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(612)607-1700

QUALITY CONTROL DATA

Project: Pine City Airport
Pace Project No.: 10475470

LABORATORY CONTROL SAMPLE: 3288262

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/kg	1000	638	64	51-125	
p-Isopropyltoluene	ug/kg	1000	726	73	53-134	
sec-Butylbenzene	ug/kg	1000	719	72	52-134	
Styrene	ug/kg	1000	765	76	53-128	
tert-Butylbenzene	ug/kg	1000	791	79	51-133	
Tetrachloroethene	ug/kg	1000	820	82	54-131	
Tetrahydrofuran	ug/kg	10000	8400	84	42-145	
Toluene	ug/kg	1000	733	73	51-125	
trans-1,2-Dichloroethene	ug/kg	1000	817	82	50-130	
trans-1,3-Dichloropropene	ug/kg	1000	827	83	52-125	
Trichloroethene	ug/kg	1000	839	84	55-131	
Trichlorofluoromethane	ug/kg	1000	1070	107	30-150	CH
Vinyl chloride	ug/kg	1000	752	75	58-125	
Xylene (Total)	ug/kg	3000	2360	79	52-125	
1,2-Dichloroethane-d4 (S)	%.			97	75-125	
4-Bromofluorobenzene (S)	%.			96	75-125	
Toluene-d8 (S)	%.			96	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3288263 3288264

Parameter	Units	10475470001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/kg	ND	1150	1140	1360	1260	119	111	68-150	8	30	
1,1,1-Trichloroethane	ug/kg	ND	1150	1140	1410	1320	123	116	63-150	6	30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	1150	1140	1310	1170	114	103	60-146	11	30	
1,1,2-Trichloroethane	ug/kg	ND	1150	1140	1270	1190	111	104	63-143	7	30	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	1150	1140	1460	1360	127	120	30-150	7	30	
1,1-Dichloroethane	ug/kg	ND	1150	1140	1250	1180	108	104	63-144	5	30	
1,1-Dichloroethene	ug/kg	ND	1150	1140	1330	1220	116	107	30-150	9	30	
1,1-Dichloropropene	ug/kg	ND	1150	1140	1310	1200	114	105	54-150	9	30	
1,2,3-Trichlorobenzene	ug/kg	ND	1150	1140	1060	989	93	87	63-142	7	30	
1,2,3-Trichloropropane	ug/kg	ND	1150	1140	1320	1230	115	108	59-147	7	30	
1,2,4-Trichlorobenzene	ug/kg	ND	1150	1140	1070	974	93	85	66-142	9	30	
1,2,4-Trimethylbenzene	ug/kg	ND	1150	1140	1180	1110	103	97	65-145	6	30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	2870	2850	3170	2850	110	100	60-142	11	30	
1,2-Dibromoethane (EDB)	ug/kg	ND	1150	1140	1290	1180	112	104	67-135	8	30	
1,2-Dichlorobenzene	ug/kg	ND	1150	1140	1200	1100	104	96	68-141	9	30	
1,2-Dichloroethane	ug/kg	ND	1150	1140	1200	1110	104	98	56-132	7	30	
1,2-Dichloropropane	ug/kg	ND	1150	1140	1330	1250	116	110	58-150	6	30	
1,3,5-Trimethylbenzene	ug/kg	ND	1150	1140	1230	1150	107	101	66-148	7	30	
1,3-Dichlorobenzene	ug/kg	ND	1150	1140	1240	1130	108	99	63-148	9	30	
1,3-Dichloropropane	ug/kg	ND	1150	1140	1310	1210	114	106	63-142	8	30	
1,4-Dichlorobenzene	ug/kg	ND	1150	1140	1230	1140	107	100	68-140	7	30	
2,2-Dichloropropane	ug/kg	ND	1150	1140	1360	1270	118	112	62-143	7	30	

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(612)607-1700

QUALITY CONTROL DATA

Project: Pine City Airport
Pace Project No.: 10475470

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3288263 3288264

Parameter	Units	10475470001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Butanone (MEK)	ug/kg	ND	5740	5700	6450	5530	112	97	53-138	15	30	
2-Chlorotoluene	ug/kg	ND	1150	1140	1200	1110	104	97	64-145	8	30	
4-Chlorotoluene	ug/kg	ND	1150	1140	1200	1120	105	98	63-149	7	30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	5740	5700	6810	6280	118	110	47-150	8	30	
Acetone	ug/kg	ND	5740	5700	7980	8190	139	144	64-150	3	30	
Allyl chloride	ug/kg	ND	1150	1140	1200	1130	105	99	49-146	6	30	
Benzene	ug/kg	ND	1150	1140	1220	1150	106	101	63-136	6	30	
Bromobenzene	ug/kg	ND	1150	1140	1250	1170	109	103	63-142	7	30	
Bromochloromethane	ug/kg	ND	1150	1140	1300	1210	113	106	61-139	7	30	
Bromodichloromethane	ug/kg	ND	1150	1140	1390	1310	121	115	63-150	6	30	
Bromoform	ug/kg	ND	1150	1140	1380	1260	120	111	64-140	9	30	
Bromomethane	ug/kg	ND	1150	1140	1250	1290	109	113	56-148	3	30	
Carbon tetrachloride	ug/kg	ND	1150	1140	1410	1330	123	117	75-148	6	30	
Chlorobenzene	ug/kg	ND	1150	1140	1260	1190	110	105	62-147	6	30	
Chloroethane	ug/kg	ND	1150	1140	1620	1510	141	132	37-150	7	30	CH
Chloroform	ug/kg	ND	1150	1140	1250	1160	109	102	66-130	7	30	
Chloromethane	ug/kg	ND	1150	1140	1030	1090	90	95	35-131	5	30	
cis-1,2-Dichloroethene	ug/kg	ND	1150	1140	1270	1230	111	108	63-143	3	30	
cis-1,3-Dichloropropene	ug/kg	ND	1150	1140	1380	1280	120	112	60-150	7	30	
Dibromochloromethane	ug/kg	ND	1150	1140	1350	1240	117	109	64-144	9	30	
Dibromomethane	ug/kg	ND	1150	1140	1360	1300	118	114	59-148	5	30	
Dichlorodifluoromethane	ug/kg	ND	1150	1140	835	869	73	76	30-125	4	30	
Dichlorofluoromethane	ug/kg	ND	1150	1140	1200	1230	104	108	39-150	3	30	N2
Diethyl ether (Ethyl ether)	ug/kg	ND	1150	1140	1300	1230	113	108	59-149	5	30	
Ethylbenzene	ug/kg	ND	1150	1140	1240	1150	108	101	64-142	8	30	
Hexachloro-1,3-butadiene	ug/kg	ND	1150	1140	1070	1000	93	88	58-150	6	30	
Isopropylbenzene (Cumene)	ug/kg	ND	1150	1140	1270	1180	110	104	67-150	7	30	
Methyl-tert-butyl ether	ug/kg	ND	1150	1140	1310	1220	114	107	69-134	7	30	
Methylene Chloride	ug/kg	ND	1150	1140	1270	1210	104	99	56-134	5	30	
n-Butylbenzene	ug/kg	ND	1150	1140	1010	971	88	85	64-150	4	30	
n-Propylbenzene	ug/kg	ND	1150	1140	1170	1090	102	95	65-150	8	30	
Naphthalene	ug/kg	ND	1150	1140	1040	958	90	84	63-148	8	30	
p-Isopropyltoluene	ug/kg	ND	1150	1140	1170	1080	102	95	69-150	8	30	
sec-Butylbenzene	ug/kg	ND	1150	1140	1190	1120	104	99	69-150	6	30	
Styrene	ug/kg	ND	1150	1140	1280	1190	111	105	63-150	7	30	
tert-Butylbenzene	ug/kg	ND	1150	1140	1260	1190	110	105	67-150	6	30	
Tetrachloroethene	ug/kg	ND	1150	1140	1320	1240	114	109	62-150	6	30	
Tetrahydrofuran	ug/kg	ND	11500	11400	13800	12800	120	113	53-150	7	30	
Toluene	ug/kg	ND	1150	1140	1150	1090	100	95	61-141	5	30	
trans-1,2-Dichloroethene	ug/kg	ND	1150	1140	1290	1190	112	104	52-148	8	30	
trans-1,3-Dichloropropene	ug/kg	ND	1150	1140	1350	1240	118	109	62-142	9	30	
Trichloroethene	ug/kg	ND	1150	1140	1310	1250	114	109	59-150	5	30	
Trichlorofluoromethane	ug/kg	ND	1150	1140	1530	1510	133	133	30-150	1	30	CH
Vinyl chloride	ug/kg	ND	1150	1140	1010	1050	88	92	44-144	4	30	

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(612)607-1700

QUALITY CONTROL DATA

Project: Pine City Airport
Pace Project No.: 10475470

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3288263 3288264

Parameter	Units	10475470001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Xylene (Total)	ug/kg	ND	3450	3420	3790	3560	110	104	67-145	6	30	
1,2-Dichloroethane-d4 (S)	%.						97	95	75-125			
4-Bromofluorobenzene (S)	%.						95	96	75-125			
Toluene-d8 (S)	%.						97	97	75-125			

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QUALITY CONTROL DATA

Project: Pine City Airport
Pace Project No.: 10475470

QC Batch: 608780 | Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B | Analysis Description: 8260B MSV 465 W
Associated Lab Samples: 10475470010, 10475470011, 10475470012, 10475470013, 10475470014, 10475470015

METHOD BLANK: 3290600 | Matrix: Water
Associated Lab Samples: 10475470010, 10475470011, 10475470012, 10475470013, 10475470014, 10475470015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/28/19 23:21	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/28/19 23:21	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/28/19 23:21	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/28/19 23:21	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	05/28/19 23:21	
1,1-Dichloroethane	ug/L	ND	1.0	05/28/19 23:21	
1,1-Dichloroethene	ug/L	ND	1.0	05/28/19 23:21	
1,1-Dichloropropene	ug/L	ND	1.0	05/28/19 23:21	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/28/19 23:21	
1,2,3-Trichloropropane	ug/L	ND	4.0	05/28/19 23:21	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/28/19 23:21	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	05/28/19 23:21	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	05/28/19 23:21	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/28/19 23:21	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/28/19 23:21	
1,2-Dichloroethane	ug/L	ND	1.0	05/28/19 23:21	
1,2-Dichloropropane	ug/L	ND	4.0	05/28/19 23:21	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	05/28/19 23:21	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/28/19 23:21	
1,3-Dichloropropane	ug/L	ND	1.0	05/28/19 23:21	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/28/19 23:21	
2,2-Dichloropropane	ug/L	ND	4.0	05/28/19 23:21	
2-Butanone (MEK)	ug/L	ND	5.0	05/28/19 23:21	
2-Chlorotoluene	ug/L	ND	1.0	05/28/19 23:21	
4-Chlorotoluene	ug/L	ND	1.0	05/28/19 23:21	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/28/19 23:21	
Acetone	ug/L	ND	20.0	05/28/19 23:21	
Allyl chloride	ug/L	ND	4.0	05/28/19 23:21	
Benzene	ug/L	ND	1.0	05/28/19 23:21	
Bromobenzene	ug/L	ND	1.0	05/28/19 23:21	
Bromochloromethane	ug/L	ND	1.0	05/28/19 23:21	
Bromodichloromethane	ug/L	ND	1.0	05/28/19 23:21	
Bromoform	ug/L	ND	4.0	05/28/19 23:21	
Bromomethane	ug/L	ND	4.0	05/28/19 23:21	
Carbon tetrachloride	ug/L	ND	1.0	05/28/19 23:21	
Chlorobenzene	ug/L	ND	1.0	05/28/19 23:21	
Chloroethane	ug/L	ND	1.0	05/28/19 23:21	
Chloroform	ug/L	ND	1.0	05/28/19 23:21	
Chloromethane	ug/L	ND	4.0	05/28/19 23:21	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/28/19 23:21	
cis-1,3-Dichloropropene	ug/L	ND	4.0	05/28/19 23:21	

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QUALITY CONTROL DATA

Project: Pine City Airport
Pace Project No.: 10475470

METHOD BLANK: 3290600 Matrix: Water
Associated Lab Samples: 10475470010, 10475470011, 10475470012, 10475470013, 10475470014, 10475470015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	ND	1.0	05/28/19 23:21	
Dibromomethane	ug/L	ND	4.0	05/28/19 23:21	
Dichlorodifluoromethane	ug/L	ND	1.0	05/28/19 23:21	
Dichlorofluoromethane	ug/L	ND	1.0	05/28/19 23:21	N2
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	05/28/19 23:21	
Ethylbenzene	ug/L	ND	1.0	05/28/19 23:21	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	05/28/19 23:21	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	05/28/19 23:21	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/28/19 23:21	
Methylene Chloride	ug/L	ND	4.0	05/28/19 23:21	
n-Butylbenzene	ug/L	ND	1.0	05/28/19 23:21	
n-Propylbenzene	ug/L	ND	1.0	05/28/19 23:21	
Naphthalene	ug/L	ND	4.0	05/28/19 23:21	
p-Isopropyltoluene	ug/L	ND	1.0	05/28/19 23:21	
sec-Butylbenzene	ug/L	ND	1.0	05/28/19 23:21	
Styrene	ug/L	ND	1.0	05/28/19 23:21	
tert-Butylbenzene	ug/L	ND	1.0	05/28/19 23:21	
Tetrachloroethene	ug/L	ND	1.0	05/28/19 23:21	
Tetrahydrofuran	ug/L	ND	10.0	05/28/19 23:21	
Toluene	ug/L	ND	1.0	05/28/19 23:21	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/28/19 23:21	
trans-1,3-Dichloropropene	ug/L	ND	4.0	05/28/19 23:21	
Trichloroethene	ug/L	ND	0.40	05/28/19 23:21	
Trichlorofluoromethane	ug/L	ND	1.0	05/28/19 23:21	
Vinyl chloride	ug/L	ND	0.20	05/28/19 23:21	
Xylene (Total)	ug/L	ND	3.0	05/28/19 23:21	
1,2-Dichloroethane-d4 (S)	%.	105	75-125	05/28/19 23:21	
4-Bromofluorobenzene (S)	%.	98	75-125	05/28/19 23:21	
Toluene-d8 (S)	%.	96	75-125	05/28/19 23:21	

LABORATORY CONTROL SAMPLE: 3290601

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	10.5	105	75-125	
1,1,1-Trichloroethane	ug/L	10	9.7	97	75-125	
1,1,2,2-Tetrachloroethane	ug/L	10	9.4	94	71-128	
1,1,2-Trichloroethane	ug/L	10	9.7	97	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	10	8.6	86	73-125	
1,1-Dichloroethane	ug/L	10	9.5	95	75-125	
1,1-Dichloroethene	ug/L	10	9.1	91	69-125	
1,1-Dichloropropene	ug/L	10	8.8	88	73-125	
1,2,3-Trichlorobenzene	ug/L	10	9.8	98	70-129	
1,2,3-Trichloropropane	ug/L	10	10	100	75-125	
1,2,4-Trichlorobenzene	ug/L	10	9.2	92	71-126	

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QUALITY CONTROL DATA

Project: Pine City Airport
Pace Project No.: 10475470

LABORATORY CONTROL SAMPLE: 3290601

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	10	9.2	92	73-127	
1,2-Dibromo-3-chloropropane	ug/L	25	23.0	92	66-127	
1,2-Dibromoethane (EDB)	ug/L	10	9.8	98	75-125	
1,2-Dichlorobenzene	ug/L	10	10.2	102	75-125	
1,2-Dichloroethane	ug/L	10	10.5	105	71-125	
1,2-Dichloropropane	ug/L	10	9.2	92	72-125	
1,3,5-Trimethylbenzene	ug/L	10	9.3	93	75-125	
1,3-Dichlorobenzene	ug/L	10	9.1	91	75-125	
1,3-Dichloropropane	ug/L	10	9.5	95	75-125	
1,4-Dichlorobenzene	ug/L	10	9.5	95	75-125	
2,2-Dichloropropane	ug/L	10	9.1	91	65-127	
2-Butanone (MEK)	ug/L	50	41.5	83	74-125	
2-Chlorotoluene	ug/L	10	9.1	91	74-125	
4-Chlorotoluene	ug/L	10	9.2	92	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	50	49.4	99	75-132	
Acetone	ug/L	50	37.4	75	30-150	
Allyl chloride	ug/L	10	8.5	85	75-125	
Benzene	ug/L	10	9.1	91	75-125	
Bromobenzene	ug/L	10	9.5	95	75-125	
Bromochloromethane	ug/L	10	9.7	97	74-126	
Bromodichloromethane	ug/L	10	10.4	104	75-125	
Bromoform	ug/L	10	10.3	103	74-125	
Bromomethane	ug/L	10	15.0	150	30-150	CH,SS
Carbon tetrachloride	ug/L	10	9.4	94	70-125	
Chlorobenzene	ug/L	10	9.7	97	75-125	
Chloroethane	ug/L	10	7.8	78	64-129	
Chloroform	ug/L	10	10.1	101	75-125	
Chloromethane	ug/L	10	7.9	79	67-125	
cis-1,2-Dichloroethene	ug/L	10	9.7	97	73-125	
cis-1,3-Dichloropropene	ug/L	10	9.6	96	75-125	
Dibromochloromethane	ug/L	10	10.0	100	75-125	
Dibromomethane	ug/L	10	10.0	100	75-125	
Dichlorodifluoromethane	ug/L	10	7.9	79	65-129	
Dichlorofluoromethane	ug/L	10	9.1	91	75-125	N2
Diethyl ether (Ethyl ether)	ug/L	10	9.6	96	74-125	
Ethylbenzene	ug/L	10	9.2	92	75-125	
Hexachloro-1,3-butadiene	ug/L	10	9.2	92	66-137	
Isopropylbenzene (Cumene)	ug/L	10	9.4	94	75-125	
Methyl-tert-butyl ether	ug/L	10	10.7	107	75-125	
Methylene Chloride	ug/L	10	9.4	94	72-125	
n-Butylbenzene	ug/L	10	8.6	86	69-132	
n-Propylbenzene	ug/L	10	8.6	86	74-125	
Naphthalene	ug/L	10	9.2	92	63-125	
p-Isopropyltoluene	ug/L	10	8.9	89	75-125	
sec-Butylbenzene	ug/L	10	8.6	86	75-125	
Styrene	ug/L	10	10.0	100	75-125	
tert-Butylbenzene	ug/L	10	8.9	89	75-125	

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QUALITY CONTROL DATA

Project: Pine City Airport
Pace Project No.: 10475470

LABORATORY CONTROL SAMPLE: 3290601

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/L	10	8.7	87	75-125	
Tetrahydrofuran	ug/L	100	111	111	30-150	
Toluene	ug/L	10	8.9	89	75-125	
trans-1,2-Dichloroethene	ug/L	10	9.0	90	70-125	
trans-1,3-Dichloropropene	ug/L	10	9.8	98	75-125	
Trichloroethene	ug/L	10	10.7	107	74-125	
Trichlorofluoromethane	ug/L	10	9.3	93	74-125	
Vinyl chloride	ug/L	10	8.3	83	71-125	
Xylene (Total)	ug/L	30	27.6	92	75-125	
1,2-Dichloroethane-d4 (S)	%.			104	75-125	
4-Bromofluorobenzene (S)	%.			98	75-125	
Toluene-d8 (S)	%.			96	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3291433 3291434

Parameter	Units	10475382004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	<1.0	10	10	11.4	10.5	114	105	30-150	8	30	
1,1,1-Trichloroethane	ug/L	<1.0	10	10	11.8	10.7	118	107	30-150	10	30	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	10	10	9.5	9.2	95	92	30-150	3	30	
1,1,2-Trichloroethane	ug/L	<1.0	10	10	9.8	9.3	98	93	30-150	5	30	
1,1,2-Trichlorotrifluoroethane	ug/L	<5.0	10	10	11.1	10.5	111	105	30-150	5	30	
1,1-Dichloroethane	ug/L	<1.0	10	10	10.6	9.3	106	93	30-150	13	30	
1,1-Dichloroethene	ug/L	<1.0	10	10	10.8	10.2	108	102	30-150	6	30	
1,1-Dichloropropene	ug/L	<1.0	10	10	10.6	9.8	106	98	30-150	7	30	
1,2,3-Trichlorobenzene	ug/L	<5.0	10	10	10.6	9.6	106	96	30-150	10	30	
1,2,3-Trichloropropane	ug/L	<4.0	10	10	10	9.1	100	91	30-150	9	30	
1,2,4-Trichlorobenzene	ug/L	<5.0	10	10	9.9	9.0	99	90	30-150	10	30	
1,2,4-Trimethylbenzene	ug/L	<1.0	10	10	10.2	9.4	102	94	30-150	8	30	
1,2-Dibromo-3-chloropropane	ug/L	<5.0	25	25	26.4	22.2	106	89	30-150	17	30	
1,2-Dibromoethane (EDB)	ug/L	<1.0	10	10	10.2	9.6	102	96	30-150	6	30	
1,2-Dichlorobenzene	ug/L	<1.0	10	10	11.3	9.9	113	99	30-150	13	30	
1,2-Dichloroethane	ug/L	<1.0	10	10	11.1	10.5	111	105	30-150	6	30	
1,2-Dichloropropane	ug/L	<4.0	10	10	10	8.8	100	88	30-150	12	30	
1,3,5-Trimethylbenzene	ug/L	<1.0	10	10	10.5	9.5	105	95	30-150	10	30	
1,3-Dichlorobenzene	ug/L	<1.0	10	10	10.1	9.4	101	94	30-150	7	30	
1,3-Dichloropropane	ug/L	<1.0	10	10	10.4	9.3	104	93	30-150	12	30	
1,4-Dichlorobenzene	ug/L	<1.0	10	10	10.1	9.3	101	93	30-150	9	30	
2,2-Dichloropropane	ug/L	<4.0	10	10	10.9	9.7	109	97	30-150	12	30	
2-Butanone (MEK)	ug/L	<20.0	50	50	41.0	38.4	82	77	30-150	7	30	
2-Chlorotoluene	ug/L	<1.0	10	10	10	9.2	100	92	30-150	8	30	
4-Chlorotoluene	ug/L	<1.0	10	10	9.6	9.2	96	92	30-150	5	30	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	50	50.3	46.2	101	92	30-150	8	30	

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QUALITY CONTROL DATA

Project: Pine City Airport
Pace Project No.: 10475470

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3291433 3291434

Parameter	Units	10475382004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acetone	ug/L	<20.0	50	50	34.1	29.9	68	60	30-150	13	30	
Allyl chloride	ug/L	<5.0	10	10	10.0	9.4	100	94	30-147	6	30	
Benzene	ug/L	<1.0	10	10	10.6	9.4	106	94	30-150	12	30	
Bromobenzene	ug/L	<1.0	10	10	10.5	9.4	105	94	30-150	10	30	
Bromochloromethane	ug/L	<1.0	10	10	10.4	9.4	104	94	30-150	10	30	
Bromodichloromethane	ug/L	<1.0	10	10	11.3	10.0	113	100	30-150	12	30	
Bromoform	ug/L	<1.0	10	10	11.0	10.4	110	104	30-150	6	30	
Bromomethane	ug/L	<5.0	10	10	15.3	14.8	153	148	30-150	3	30	CH, M1, SS
Carbon tetrachloride	ug/L	<1.0	10	10	11.3	10.7	113	107	30-150	5	30	
Chlorobenzene	ug/L	<1.0	10	10	10.6	9.9	106	99	30-150	7	30	
Chloroethane	ug/L	<1.0	10	10	8.4	8.5	84	85	30-150	1	30	
Chloroform	ug/L	<5.0	10	10	10.5	9.9	105	99	30-150	6	30	
Chloromethane	ug/L	<1.0	10	10	8.2	8.0	82	80	30-150	2	30	
cis-1,2-Dichloroethene	ug/L	<1.0	10	10	10.8	10.2	108	102	30-150	6	30	
cis-1,3-Dichloropropene	ug/L	<4.0	10	10	10.8	9.7	108	97	30-145	10	30	
Dibromochloromethane	ug/L	<1.0	10	10	10.8	9.9	108	99	30-150	8	30	
Dibromomethane	ug/L	<4.0	10	10	10.3	9.7	103	97	30-150	6	30	
Dichlorodifluoromethane	ug/L	<1.0	10	10	9.3	8.9	93	89	30-150	5	30	
Dichlorofluoromethane	ug/L	<1.0	10	10	9.8	10.0	98	100	30-150	2	30	N2
Diethyl ether (Ethyl ether)	ug/L	<5.0	10	10	10.1	9.6	101	96	30-150	5	30	
Ethylbenzene	ug/L	<1.0	10	10	10.2	9.4	102	94	30-150	8	30	
Hexachloro-1,3-butadiene	ug/L	<5.0	10	10	10.3	10	103	100	30-150	3	30	
Isopropylbenzene (Cumene)	ug/L	<1.0	10	10	10.5	9.4	105	94	30-150	11	30	
Methyl-tert-butyl ether	ug/L	<1.0	10	10	11.3	10.7	113	107	30-150	5	30	
Methylene Chloride	ug/L	<4.0	10	10	9.6	9.2	96	92	30-146	4	30	
n-Butylbenzene	ug/L	<1.0	10	10	10	9.2	100	92	30-150	8	30	
n-Propylbenzene	ug/L	<1.0	10	10	9.9	9.2	99	92	30-150	7	30	
Naphthalene	ug/L	<5.0	10	10	9.9	9.2	99	92	30-150	8	30	
p-Isopropyltoluene	ug/L	<1.0	10	10	9.9	8.9	99	89	30-150	11	30	
sec-Butylbenzene	ug/L	<5.0	10	10	10.3	9.1	103	91	30-150	12	30	
Styrene	ug/L	<1.0	10	10	9.9	9.2	99	92	30-150	7	30	
tert-Butylbenzene	ug/L	<1.0	10	10	10.1	9.1	101	91	30-150	10	30	
Tetrachloroethene	ug/L	<1.0	10	10	10.4	9.6	104	96	30-150	8	30	
Tetrahydrofuran	ug/L	<10.0	100	100	110	106	110	106	30-150	4	30	
Toluene	ug/L	<1.0	10	10	10.2	9.3	102	93	30-150	8	30	
trans-1,2-Dichloroethene	ug/L	<1.0	10	10	11.0	10.3	110	103	30-150	7	30	
trans-1,3-Dichloropropene	ug/L	<4.0	10	10	10	9.4	100	94	30-150	6	30	
Trichloroethene	ug/L	<0.40	10	10	11.6	10.7	116	107	30-150	7	30	
Trichlorofluoromethane	ug/L	<1.0	10	10	11.1	11.0	111	110	30-150	0	30	
Vinyl chloride	ug/L	<0.20	10	10	8.8	8.6	88	86	30-150	3	30	
Xylene (Total)	ug/L	<3.0	30	30	29.4	27.7	98	92	30-150	6	30	
1,2-Dichloroethane-d4 (S)	%.						106	105	75-125			
4-Bromofluorobenzene (S)	%.						98	98	75-125			
Toluene-d8 (S)	%.						96	97	75-125			

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QUALITY CONTROL DATA

Project: Pine City Airport
Pace Project No.: 10475470

QC Batch: 609026
QC Batch Method: EPA 8260B
Analysis Method: EPA 8260B
Analysis Description: 8260B MSV 465 W
Associated Lab Samples: 10475470023

METHOD BLANK: 3291486
Matrix: Water
Associated Lab Samples: 10475470023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/29/19 12:06	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/29/19 12:06	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/29/19 12:06	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/29/19 12:06	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	05/29/19 12:06	
1,1-Dichloroethane	ug/L	ND	1.0	05/29/19 12:06	
1,1-Dichloroethene	ug/L	ND	1.0	05/29/19 12:06	
1,1-Dichloropropene	ug/L	ND	1.0	05/29/19 12:06	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/29/19 12:06	
1,2,3-Trichloropropane	ug/L	ND	4.0	05/29/19 12:06	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/29/19 12:06	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	05/29/19 12:06	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	05/29/19 12:06	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/29/19 12:06	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/29/19 12:06	
1,2-Dichloroethane	ug/L	ND	1.0	05/29/19 12:06	
1,2-Dichloropropane	ug/L	ND	4.0	05/29/19 12:06	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	05/29/19 12:06	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/29/19 12:06	
1,3-Dichloropropane	ug/L	ND	1.0	05/29/19 12:06	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/29/19 12:06	
2,2-Dichloropropane	ug/L	ND	4.0	05/29/19 12:06	
2-Butanone (MEK)	ug/L	ND	5.0	05/29/19 12:06	
2-Chlorotoluene	ug/L	ND	1.0	05/29/19 12:06	
4-Chlorotoluene	ug/L	ND	1.0	05/29/19 12:06	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/29/19 12:06	
Acetone	ug/L	ND	20.0	05/29/19 12:06	
Allyl chloride	ug/L	ND	4.0	05/29/19 12:06	
Benzene	ug/L	ND	1.0	05/29/19 12:06	
Bromobenzene	ug/L	ND	1.0	05/29/19 12:06	
Bromochloromethane	ug/L	ND	1.0	05/29/19 12:06	
Bromodichloromethane	ug/L	ND	1.0	05/29/19 12:06	
Bromoform	ug/L	ND	4.0	05/29/19 12:06	
Bromomethane	ug/L	ND	4.0	05/29/19 12:06	
Carbon tetrachloride	ug/L	ND	1.0	05/29/19 12:06	
Chlorobenzene	ug/L	ND	1.0	05/29/19 12:06	
Chloroethane	ug/L	ND	1.0	05/29/19 12:06	
Chloroform	ug/L	ND	1.0	05/29/19 12:06	
Chloromethane	ug/L	ND	4.0	05/29/19 12:06	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/29/19 12:06	
cis-1,3-Dichloropropene	ug/L	ND	4.0	05/29/19 12:06	

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QUALITY CONTROL DATA

Project: Pine City Airport
Pace Project No.: 10475470

METHOD BLANK: 3291486 Matrix: Water
Associated Lab Samples: 10475470023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	ND	1.0	05/29/19 12:06	
Dibromomethane	ug/L	ND	4.0	05/29/19 12:06	
Dichlorodifluoromethane	ug/L	ND	1.0	05/29/19 12:06	
Dichlorofluoromethane	ug/L	ND	1.0	05/29/19 12:06	N2
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	05/29/19 12:06	
Ethylbenzene	ug/L	ND	1.0	05/29/19 12:06	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	05/29/19 12:06	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	05/29/19 12:06	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/29/19 12:06	
Methylene Chloride	ug/L	ND	4.0	05/29/19 12:06	
n-Butylbenzene	ug/L	ND	1.0	05/29/19 12:06	
n-Propylbenzene	ug/L	ND	1.0	05/29/19 12:06	
Naphthalene	ug/L	ND	4.0	05/29/19 12:06	
p-Isopropyltoluene	ug/L	ND	1.0	05/29/19 12:06	
sec-Butylbenzene	ug/L	ND	1.0	05/29/19 12:06	
Styrene	ug/L	ND	1.0	05/29/19 12:06	
tert-Butylbenzene	ug/L	ND	1.0	05/29/19 12:06	
Tetrachloroethene	ug/L	ND	1.0	05/29/19 12:06	
Tetrahydrofuran	ug/L	ND	10.0	05/29/19 12:06	
Toluene	ug/L	ND	1.0	05/29/19 12:06	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/29/19 12:06	
trans-1,3-Dichloropropene	ug/L	ND	4.0	05/29/19 12:06	
Trichloroethene	ug/L	ND	0.40	05/29/19 12:06	
Trichlorofluoromethane	ug/L	ND	1.0	05/29/19 12:06	
Vinyl chloride	ug/L	ND	0.20	05/29/19 12:06	
Xylene (Total)	ug/L	ND	3.0	05/29/19 12:06	
1,2-Dichloroethane-d4 (S)	%.	105	75-125	05/29/19 12:06	
4-Bromofluorobenzene (S)	%.	99	75-125	05/29/19 12:06	
Toluene-d8 (S)	%.	95	75-125	05/29/19 12:06	

LABORATORY CONTROL SAMPLE: 3291487

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	10.8	108	75-125	
1,1,1-Trichloroethane	ug/L	10	11.2	112	75-125	
1,1,2,2-Tetrachloroethane	ug/L	10	9.5	95	71-128	
1,1,2-Trichloroethane	ug/L	10	9.3	93	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	10	10.4	104	73-125	
1,1-Dichloroethane	ug/L	10	9.7	97	75-125	
1,1-Dichloroethene	ug/L	10	9.7	97	69-125	
1,1-Dichloropropene	ug/L	10	9.6	96	73-125	
1,2,3-Trichlorobenzene	ug/L	10	10.1	101	70-129	
1,2,3-Trichloropropane	ug/L	10	10.0	100	75-125	
1,2,4-Trichlorobenzene	ug/L	10	10.3	103	71-126	

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(612)607-1700

QUALITY CONTROL DATA

Project: Pine City Airport
Pace Project No.: 10475470

LABORATORY CONTROL SAMPLE: 3291487

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	10	10.0	100	73-127	
1,2-Dibromo-3-chloropropane	ug/L	25	25.6	102	66-127	
1,2-Dibromoethane (EDB)	ug/L	10	9.8	98	75-125	
1,2-Dichlorobenzene	ug/L	10	10.5	105	75-125	
1,2-Dichloroethane	ug/L	10	11.3	113	71-125	
1,2-Dichloropropane	ug/L	10	9.7	97	72-125	
1,3,5-Trimethylbenzene	ug/L	10	9.9	99	75-125	
1,3-Dichlorobenzene	ug/L	10	9.9	99	75-125	
1,3-Dichloropropane	ug/L	10	10.3	103	75-125	
1,4-Dichlorobenzene	ug/L	10	10.0	100	75-125	
2,2-Dichloropropane	ug/L	10	10.9	109	65-127	
2-Butanone (MEK)	ug/L	50	44.5	89	74-125	
2-Chlorotoluene	ug/L	10	9.4	94	74-125	
4-Chlorotoluene	ug/L	10	9.6	96	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	50	48.2	96	75-132	
Acetone	ug/L	50	51.1	102	30-150	
Allyl chloride	ug/L	10	8.8	88	75-125	
Benzene	ug/L	10	9.6	96	75-125	
Bromobenzene	ug/L	10	9.8	98	75-125	
Bromochloromethane	ug/L	10	10.4	104	74-126	
Bromodichloromethane	ug/L	10	11.1	111	75-125	
Bromoform	ug/L	10	10.6	106	74-125	
Bromomethane	ug/L	10	12.9	129	30-150	SS
Carbon tetrachloride	ug/L	10	10.5	105	70-125	
Chlorobenzene	ug/L	10	10.0	100	75-125	
Chloroethane	ug/L	10	8.4	84	64-129	
Chloroform	ug/L	10	10.5	105	75-125	
Chloromethane	ug/L	10	7.5	75	67-125	
cis-1,2-Dichloroethene	ug/L	10	10.5	105	73-125	
cis-1,3-Dichloropropene	ug/L	10	10.7	107	75-125	
Dibromochloromethane	ug/L	10	10.7	107	75-125	
Dibromomethane	ug/L	10	10.8	108	75-125	
Dichlorodifluoromethane	ug/L	10	8.9	89	65-129	
Dichlorofluoromethane	ug/L	10	9.8	98	75-125	N2
Diethyl ether (Ethyl ether)	ug/L	10	9.3	93	74-125	
Ethylbenzene	ug/L	10	9.4	94	75-125	
Hexachloro-1,3-butadiene	ug/L	10	10.9	109	66-137	
Isopropylbenzene (Cumene)	ug/L	10	9.6	96	75-125	
Methyl-tert-butyl ether	ug/L	10	11.3	113	75-125	
Methylene Chloride	ug/L	10	9.2	92	72-125	
n-Butylbenzene	ug/L	10	9.5	95	69-132	
n-Propylbenzene	ug/L	10	9.3	93	74-125	
Naphthalene	ug/L	10	9.5	95	63-125	
p-Isopropyltoluene	ug/L	10	9.3	93	75-125	
sec-Butylbenzene	ug/L	10	9.4	94	75-125	
Styrene	ug/L	10	9.9	99	75-125	
tert-Butylbenzene	ug/L	10	9.6	96	75-125	

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(612)607-1700

QUALITY CONTROL DATA

Project: Pine City Airport
Pace Project No.: 10475470

LABORATORY CONTROL SAMPLE: 3291487

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/L	10	9.6	96	75-125	
Tetrahydrofuran	ug/L	100	111	111	30-150	
Toluene	ug/L	10	9.3	93	75-125	
trans-1,2-Dichloroethene	ug/L	10	9.9	99	70-125	
trans-1,3-Dichloropropene	ug/L	10	9.8	98	75-125	
Trichloroethene	ug/L	10	11.2	112	74-125	
Trichlorofluoromethane	ug/L	10	11.2	112	74-125	
Vinyl chloride	ug/L	10	8.3	83	71-125	
Xylene (Total)	ug/L	30	27.6	92	75-125	
1,2-Dichloroethane-d4 (S)	%.			104	75-125	
4-Bromofluorobenzene (S)	%.			98	75-125	
Toluene-d8 (S)	%.			95	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3291488 3291489

Parameter	Units	10475148006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	<0.20	10	10	10	9.7	100	97	30-150	3	30	
1,1,1-Trichloroethane	ug/L	<0.14	10	10	10.6	10.1	106	101	30-150	6	30	
1,1,2,2-Tetrachloroethane	ug/L	<0.17	10	10	8.4	7.6	84	76	30-150	10	30	
1,1,2-Trichloroethane	ug/L	<0.18	10	10	8.9	8.0	89	80	30-150	10	30	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.47	10	10	10.1	9.9	101	99	30-150	2	30	
1,1-Dichloroethane	ug/L	<0.17	10	10	9.1	8.6	91	86	30-150	6	30	
1,1-Dichloroethene	ug/L	<0.16	10	10	9.7	9.7	97	97	30-150	0	30	
1,1-Dichloropropene	ug/L	<0.20	10	10	9.3	9.1	93	91	30-150	2	30	
1,2,3-Trichlorobenzene	ug/L	<0.21	10	10	10.4	9.6	104	96	30-150	7	30	
1,2,3-Trichloropropane	ug/L	<0.26	10	10	9.4	8.6	94	86	30-150	9	30	
1,2,4-Trichlorobenzene	ug/L	<0.20	10	10	10.3	9.4	103	94	30-150	8	30	
1,2,4-Trimethylbenzene	ug/L	2.4	10	10	11.4	11.2	90	88	30-150	2	30	
1,2-Dibromo-3-chloropropane	ug/L	<1.7	25	25	22.5	21.7	90	87	30-150	4	30	
1,2-Dibromoethane (EDB)	ug/L	<0.24	10	10	8.6	9.1	86	91	30-150	5	30	
1,2-Dichlorobenzene	ug/L	<0.14	10	10	9.5	8.8	95	88	30-150	8	30	
1,2-Dichloroethane	ug/L	<0.22	10	10	10.2	9.7	102	97	30-150	5	30	
1,2-Dichloropropane	ug/L	<0.16	10	10	8.5	8.3	85	83	30-150	2	30	
1,3,5-Trimethylbenzene	ug/L	1.8	10	10	10.6	10.4	88	86	30-150	2	30	
1,3-Dichlorobenzene	ug/L	<0.16	10	10	9.3	8.5	93	85	30-150	9	30	
1,3-Dichloropropane	ug/L	<0.17	10	10	9.1	8.6	91	86	30-150	6	30	
1,4-Dichlorobenzene	ug/L	<0.17	10	10	9.3	8.8	93	88	30-150	5	30	
2,2-Dichloropropane	ug/L	<0.17	10	10	10.3	10.1	103	101	30-150	2	30	
2-Butanone (MEK)	ug/L	<0.99	50	50	34.7	32.8	69	66	30-150	6	30	
2-Chlorotoluene	ug/L	<0.16	10	10	9.4	8.8	94	88	30-150	6	30	
4-Chlorotoluene	ug/L	<0.13	10	10	8.8	8.6	88	86	30-150	2	30	
4-Methyl-2-pentanone (MIBK)	ug/L	<0.42	50	50	41.7	41.0	83	82	30-150	2	30	

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QUALITY CONTROL DATA

Project: Pine City Airport
Pace Project No.: 10475470

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3291488 3291489

Parameter	Units	10475148006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acetone	ug/L	<9.2	50	50	30.7	31.3	56	57	30-150	2	30	
Allyl chloride	ug/L	<0.29	10	10	8.2	8.1	82	81	30-147	1	30	
Benzene	ug/L	3.8	10	10	12.4	11.9	86	81	30-150	4	30	
Bromobenzene	ug/L	<0.21	10	10	9.7	8.7	97	87	30-150	10	30	
Bromochloromethane	ug/L	<0.27	10	10	9.5	8.7	95	87	30-150	9	30	
Bromodichloromethane	ug/L	<0.22	10	10	10.4	9.3	104	93	30-150	11	30	
Bromoform	ug/L	<0.80	10	10	9.8	8.9	98	89	30-150	10	30	
Bromomethane	ug/L	<1.8	10	10	14.6	16.4	146	164	30-150	12	30	M1,SS
Carbon tetrachloride	ug/L	<0.19	10	10	10.5	9.6	105	96	30-150	9	30	
Chlorobenzene	ug/L	<0.17	10	10	9.5	9.1	95	91	30-150	4	30	
Chloroethane	ug/L	<0.49	10	10	8.2	9.4	82	94	30-150	13	30	
Chloroform	ug/L	<0.45	10	10	9.5	8.8	95	88	30-150	7	30	
Chloromethane	ug/L	0.41J	10	10	7.7	9.5	73	91	30-150	21	30	
cis-1,2-Dichloroethene	ug/L	<0.15	10	10	10.5	9.0	105	90	30-150	16	30	
cis-1,3-Dichloropropene	ug/L	<0.20	10	10	9.6	9.1	96	91	30-145	5	30	
Dibromochloromethane	ug/L	<0.46	10	10	9.6	8.9	96	89	30-150	8	30	
Dibromomethane	ug/L	<0.39	10	10	9.3	9.5	93	95	30-150	2	30	
Dichlorodifluoromethane	ug/L	<0.23	10	10	9.0	9.7	90	97	30-150	7	30	
Dichlorofluoromethane	ug/L	<0.14	10	10	9.4	11.0	94	110	30-150	15	30	N2
Diethyl ether (Ethyl ether)	ug/L	<0.095	10	10	8.8	8.3	88	83	30-150	6	30	
Ethylbenzene	ug/L	3.9	10	10	12.3	12.1	85	83	30-150	2	30	
Hexachloro-1,3-butadiene	ug/L	<0.31	10	10	10.9	10.5	109	105	30-150	3	30	
Isopropylbenzene (Cumene)	ug/L	2.9	10	10	11.5	11.4	86	85	30-150	1	30	
Methyl-tert-butyl ether	ug/L	<0.16	10	10	10	9.4	100	94	30-150	6	30	
Methylene Chloride	ug/L	<0.98	10	10	8.7	8.7	87	87	30-146	0	30	
n-Butylbenzene	ug/L	0.72J	10	10	10	9.4	93	87	30-150	6	30	
n-Propylbenzene	ug/L	2.3	10	10	10.4	10.1	80	78	30-150	3	30	
Naphthalene	ug/L	161	10	10	175	198	133	369	30-150	13	30	M1
p-Isopropyltoluene	ug/L	0.60J	10	10	9.7	8.9	91	83	30-150	8	30	
sec-Butylbenzene	ug/L	<0.15	10	10	8.9	8.6	89	86	30-150	3	30	
Styrene	ug/L	<0.19	10	10	9.6	9.3	96	93	30-150	3	30	
tert-Butylbenzene	ug/L	<0.15	10	10	8.9	8.7	89	87	30-150	3	30	
Tetrachloroethene	ug/L	<0.17	10	10	9.3	8.7	93	87	30-150	6	30	
Tetrahydrofuran	ug/L	<2.2	100	100	98.5	93.9	99	94	30-150	5	30	
Toluene	ug/L	0.86J	10	10	9.0	8.6	82	78	30-150	5	30	
trans-1,2-Dichloroethene	ug/L	<0.24	10	10	10.3	9.0	103	90	30-150	13	30	
trans-1,3-Dichloropropene	ug/L	<0.18	10	10	9.2	8.4	92	84	30-150	9	30	
Trichloroethene	ug/L	<0.15	10	10	10.9	10.4	109	104	30-150	4	30	
Trichlorofluoromethane	ug/L	<0.23	10	10	10.9	12.7	109	127	30-150	15	30	
Vinyl chloride	ug/L	<0.092	10	10	8.5	9.9	85	98	30-150	15	30	
Xylene (Total)	ug/L	5.8	30	30	30.1	29.9	81	80	30-150	1	30	
1,2-Dichloroethane-d4 (S)	%.						105	107	75-125			
4-Bromofluorobenzene (S)	%.						97	96	75-125			
Toluene-d8 (S)	%.						95	96	75-125			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Pine City Airport
Pace Project No.: 10475470

QC Batch: 609186
QC Batch Method: EPA 8260B
Analysis Method: EPA 8260B
Analysis Description: 8260B MSV 465 W
Associated Lab Samples: 10475470009

METHOD BLANK: 3292171
Matrix: Water
Associated Lab Samples: 10475470009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/29/19 21:49	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/29/19 21:49	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/29/19 21:49	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/29/19 21:49	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	05/29/19 21:49	
1,1-Dichloroethane	ug/L	ND	1.0	05/29/19 21:49	
1,1-Dichloroethene	ug/L	ND	1.0	05/29/19 21:49	
1,1-Dichloropropene	ug/L	ND	1.0	05/29/19 21:49	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/29/19 21:49	
1,2,3-Trichloropropane	ug/L	ND	4.0	05/29/19 21:49	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/29/19 21:49	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	05/29/19 21:49	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	05/29/19 21:49	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/29/19 21:49	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/29/19 21:49	
1,2-Dichloroethane	ug/L	ND	1.0	05/29/19 21:49	
1,2-Dichloropropane	ug/L	ND	4.0	05/29/19 21:49	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	05/29/19 21:49	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/29/19 21:49	
1,3-Dichloropropane	ug/L	ND	1.0	05/29/19 21:49	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/29/19 21:49	
2,2-Dichloropropane	ug/L	ND	4.0	05/29/19 21:49	
2-Butanone (MEK)	ug/L	ND	5.0	05/29/19 21:49	
2-Chlorotoluene	ug/L	ND	1.0	05/29/19 21:49	
4-Chlorotoluene	ug/L	ND	1.0	05/29/19 21:49	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/29/19 21:49	
Acetone	ug/L	ND	20.0	05/29/19 21:49	
Allyl chloride	ug/L	ND	4.0	05/29/19 21:49	
Benzene	ug/L	ND	1.0	05/29/19 21:49	
Bromobenzene	ug/L	ND	1.0	05/29/19 21:49	
Bromochloromethane	ug/L	ND	1.0	05/29/19 21:49	
Bromodichloromethane	ug/L	ND	1.0	05/29/19 21:49	
Bromoform	ug/L	ND	4.0	05/29/19 21:49	
Bromomethane	ug/L	ND	4.0	05/29/19 21:49	
Carbon tetrachloride	ug/L	ND	1.0	05/29/19 21:49	
Chlorobenzene	ug/L	ND	1.0	05/29/19 21:49	
Chloroethane	ug/L	ND	1.0	05/29/19 21:49	
Chloroform	ug/L	ND	1.0	05/29/19 21:49	
Chloromethane	ug/L	ND	4.0	05/29/19 21:49	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/29/19 21:49	
cis-1,3-Dichloropropene	ug/L	ND	4.0	05/29/19 21:49	

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QUALITY CONTROL DATA

Project: Pine City Airport
Pace Project No.: 10475470

METHOD BLANK: 3292171 Matrix: Water
Associated Lab Samples: 10475470009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	ND	1.0	05/29/19 21:49	
Dibromomethane	ug/L	ND	4.0	05/29/19 21:49	
Dichlorodifluoromethane	ug/L	ND	1.0	05/29/19 21:49	
Dichlorofluoromethane	ug/L	ND	1.0	05/29/19 21:49	N2
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	05/29/19 21:49	
Ethylbenzene	ug/L	ND	1.0	05/29/19 21:49	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	05/29/19 21:49	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	05/29/19 21:49	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/29/19 21:49	
Methylene Chloride	ug/L	ND	4.0	05/29/19 21:49	
n-Butylbenzene	ug/L	ND	1.0	05/29/19 21:49	
n-Propylbenzene	ug/L	ND	1.0	05/29/19 21:49	
Naphthalene	ug/L	ND	4.0	05/29/19 21:49	
p-Isopropyltoluene	ug/L	ND	1.0	05/29/19 21:49	
sec-Butylbenzene	ug/L	ND	1.0	05/29/19 21:49	
Styrene	ug/L	ND	1.0	05/29/19 21:49	
tert-Butylbenzene	ug/L	ND	1.0	05/29/19 21:49	
Tetrachloroethene	ug/L	ND	1.0	05/29/19 21:49	
Tetrahydrofuran	ug/L	ND	10.0	05/29/19 21:49	
Toluene	ug/L	ND	1.0	05/29/19 21:49	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/29/19 21:49	
trans-1,3-Dichloropropene	ug/L	ND	4.0	05/29/19 21:49	
Trichloroethene	ug/L	ND	0.40	05/29/19 21:49	
Trichlorofluoromethane	ug/L	ND	1.0	05/29/19 21:49	
Vinyl chloride	ug/L	ND	0.20	05/29/19 21:49	
Xylene (Total)	ug/L	ND	3.0	05/29/19 21:49	
1,2-Dichloroethane-d4 (S)	%.	103	75-125	05/29/19 21:49	
4-Bromofluorobenzene (S)	%.	100	75-125	05/29/19 21:49	
Toluene-d8 (S)	%.	95	75-125	05/29/19 21:49	

LABORATORY CONTROL SAMPLE: 3292172

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	10.8	108	75-125	
1,1,1-Trichloroethane	ug/L	10	10.7	107	75-125	
1,1,2,2-Tetrachloroethane	ug/L	10	9.4	94	71-128	
1,1,2-Trichloroethane	ug/L	10	9.5	95	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	10	9.7	97	73-125	
1,1-Dichloroethane	ug/L	10	9.9	99	75-125	
1,1-Dichloroethene	ug/L	10	9.8	98	69-125	
1,1-Dichloropropene	ug/L	10	9.1	91	73-125	
1,2,3-Trichlorobenzene	ug/L	10	10.1	101	70-129	
1,2,3-Trichloropropane	ug/L	10	10.2	102	75-125	
1,2,4-Trichlorobenzene	ug/L	10	10.3	103	71-126	

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QUALITY CONTROL DATA

Project: Pine City Airport
Pace Project No.: 10475470

LABORATORY CONTROL SAMPLE: 3292172

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	10	9.7	97	73-127	
1,2-Dibromo-3-chloropropane	ug/L	25	23.3	93	66-127	
1,2-Dibromoethane (EDB)	ug/L	10	9.7	97	75-125	
1,2-Dichlorobenzene	ug/L	10	10	100	75-125	
1,2-Dichloroethane	ug/L	10	11.1	111	71-125	
1,2-Dichloropropane	ug/L	10	9.3	93	72-125	
1,3,5-Trimethylbenzene	ug/L	10	9.9	99	75-125	
1,3-Dichlorobenzene	ug/L	10	9.8	98	75-125	
1,3-Dichloropropane	ug/L	10	9.7	97	75-125	
1,4-Dichlorobenzene	ug/L	10	9.7	97	75-125	
2,2-Dichloropropane	ug/L	10	10.1	101	65-127	
2-Butanone (MEK)	ug/L	50	43.7	87	74-125	
2-Chlorotoluene	ug/L	10	9.3	93	74-125	
4-Chlorotoluene	ug/L	10	9.1	91	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	50	47.6	95	75-132	
Acetone	ug/L	50	41.7	83	30-150	
Allyl chloride	ug/L	10	8.9	89	75-125	
Benzene	ug/L	10	9.7	97	75-125	
Bromobenzene	ug/L	10	9.8	98	75-125	
Bromochloromethane	ug/L	10	9.6	96	74-126	
Bromodichloromethane	ug/L	10	10.7	107	75-125	
Bromoform	ug/L	10	10.1	101	74-125	
Bromomethane	ug/L	10	8.1	81	30-150	SS
Carbon tetrachloride	ug/L	10	10.4	104	70-125	
Chlorobenzene	ug/L	10	9.8	98	75-125	
Chloroethane	ug/L	10	9.1	91	64-129	
Chloroform	ug/L	10	10.7	107	75-125	
Chloromethane	ug/L	10	7.6	76	67-125	
cis-1,2-Dichloroethene	ug/L	10	10.6	106	73-125	
cis-1,3-Dichloropropene	ug/L	10	10.5	105	75-125	
Dibromochloromethane	ug/L	10	10.3	103	75-125	
Dibromomethane	ug/L	10	11.2	112	75-125	
Dichlorodifluoromethane	ug/L	10	8.7	87	65-129	
Dichlorofluoromethane	ug/L	10	10.6	106	75-125	N2
Diethyl ether (Ethyl ether)	ug/L	10	10.1	101	74-125	
Ethylbenzene	ug/L	10	9.3	93	75-125	
Hexachloro-1,3-butadiene	ug/L	10	9.9	99	66-137	
Isopropylbenzene (Cumene)	ug/L	10	9.6	96	75-125	
Methyl-tert-butyl ether	ug/L	10	11.8	118	75-125	
Methylene Chloride	ug/L	10	10.0	100	72-125	
n-Butylbenzene	ug/L	10	9.2	92	69-132	
n-Propylbenzene	ug/L	10	9.1	91	74-125	
Naphthalene	ug/L	10	9.9	99	63-125	
p-Isopropyltoluene	ug/L	10	9.5	95	75-125	
sec-Butylbenzene	ug/L	10	9.3	93	75-125	
Styrene	ug/L	10	10	100	75-125	
tert-Butylbenzene	ug/L	10	9.5	95	75-125	

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QUALITY CONTROL DATA

Project: Pine City Airport
Pace Project No.: 10475470

LABORATORY CONTROL SAMPLE: 3292172

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/L	10	9.3	93	75-125	
Tetrahydrofuran	ug/L	100	113	113	30-150	
Toluene	ug/L	10	9.3	93	75-125	
trans-1,2-Dichloroethene	ug/L	10	10	100	70-125	
trans-1,3-Dichloropropene	ug/L	10	9.2	92	75-125	
Trichloroethene	ug/L	10	10.9	109	74-125	
Trichlorofluoromethane	ug/L	10	10.7	107	74-125	
Vinyl chloride	ug/L	10	8.3	83	71-125	
Xylene (Total)	ug/L	30	27.5	92	75-125	
1,2-Dichloroethane-d4 (S)	%.			104	75-125	
4-Bromofluorobenzene (S)	%.			97	75-125	
Toluene-d8 (S)	%.			92	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3292173 3292174

Parameter	Units	10475468034 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	10	10	9.9	10.6	99	106	30-150	7	30	
1,1,1-Trichloroethane	ug/L	ND	10	10	10.9	11.9	109	119	30-150	9	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	10	10	7.7	9.0	77	90	30-150	15	30	
1,1,2-Trichloroethane	ug/L	ND	10	10	8.8	9.4	88	94	30-150	7	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	10	10	11.5	12.2	115	122	30-150	6	30	
1,1-Dichloroethane	ug/L	ND	10	10	10.2	10.6	102	106	30-150	4	30	
1,1-Dichloroethene	ug/L	ND	10	10	11.4	12.0	114	120	30-150	6	30	
1,1-Dichloropropene	ug/L	ND	10	10	10.6	10.6	106	106	30-150	0	30	
1,2,3-Trichlorobenzene	ug/L	ND	10	10	9.5	10.3	95	103	30-150	8	30	
1,2,3-Trichloropropane	ug/L	ND	10	10	8.7	9.2	87	92	30-150	7	30	
1,2,4-Trichlorobenzene	ug/L	ND	10	10	9.1	9.9	91	99	30-150	9	30	
1,2,4-Trimethylbenzene	ug/L	ND	10	10	9.4	10.2	94	102	30-150	8	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	25	25	20.0	21.9	80	87	30-150	9	30	
1,2-Dibromoethane (EDB)	ug/L	ND	10	10	9.0	9.8	90	98	30-150	8	30	
1,2-Dichlorobenzene	ug/L	ND	10	10	9.4	10.1	94	101	30-150	7	30	
1,2-Dichloroethane	ug/L	ND	10	10	10.6	11.2	106	112	30-150	6	30	
1,2-Dichloropropane	ug/L	ND	10	10	9.3	9.8	93	98	30-150	5	30	
1,3,5-Trimethylbenzene	ug/L	ND	10	10	9.6	10.1	96	101	30-150	5	30	
1,3-Dichlorobenzene	ug/L	ND	10	10	9.1	9.9	91	99	30-150	9	30	
1,3-Dichloropropane	ug/L	ND	10	10	9.2	9.7	92	97	30-150	6	30	
1,4-Dichlorobenzene	ug/L	ND	10	10	9.2	10.1	92	101	30-150	10	30	
2,2-Dichloropropane	ug/L	ND	10	10	10.8	11.3	108	113	30-150	5	30	
2-Butanone (MEK)	ug/L	ND	50	50	37.0	38.6	74	77	30-150	4	30	
2-Chlorotoluene	ug/L	ND	10	10	9.1	9.8	91	98	30-150	7	30	
4-Chlorotoluene	ug/L	ND	10	10	8.9	9.9	89	99	30-150	11	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	50	43.3	46.4	87	93	30-150	7	30	

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QUALITY CONTROL DATA

Project: Pine City Airport
Pace Project No.: 10475470

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3292173 3292174

Parameter	Units	10475468034 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acetone	ug/L	ND	50	50	35.2	34.7	70	69	30-150	1	30	
Allyl chloride	ug/L	ND	10	10	9.4	10.2	94	102	30-147	8	30	
Benzene	ug/L	ND	10	10	10.2	10.9	102	109	30-150	6	30	
Bromobenzene	ug/L	ND	10	10	9.4	9.9	94	99	30-150	5	30	
Bromochloromethane	ug/L	ND	10	10	10.0	10.7	100	107	30-150	6	30	
Bromodichloromethane	ug/L	ND	10	10	10.2	10.9	102	109	30-150	6	30	
Bromoform	ug/L	ND	10	10	8.9	9.7	89	97	30-150	9	30	
Bromomethane	ug/L	ND	10	10	10.7	11.9	107	119	30-150	11	30	SS
Carbon tetrachloride	ug/L	ND	10	10	11.1	11.8	111	118	30-150	6	30	
Chlorobenzene	ug/L	ND	10	10	9.5	10.4	95	104	30-150	9	30	
Chloroethane	ug/L	ND	10	10	11.0	10.5	110	105	30-150	5	30	
Chloroform	ug/L	ND	10	10	10.1	10.7	101	107	30-150	6	30	
Chloromethane	ug/L	ND	10	10	10.2	9.8	102	98	30-150	4	30	
cis-1,2-Dichloroethene	ug/L	5.5	10	10	15.5	16.8	100	113	30-150	8	30	
cis-1,3-Dichloropropene	ug/L	ND	10	10	9.6	10.3	96	103	30-145	7	30	
Dibromochloromethane	ug/L	ND	10	10	9.2	9.6	92	96	30-150	5	30	
Dibromomethane	ug/L	ND	10	10	10.2	10.9	102	109	30-150	7	30	
Dichlorodifluoromethane	ug/L	ND	10	10	11.3	11.0	113	110	30-150	3	30	
Dichlorofluoromethane	ug/L	ND	10	10	11.3	10.4	113	104	30-150	8	30	N2
Diethyl ether (Ethyl ether)	ug/L	ND	10	10	9.4	10.4	94	104	30-150	10	30	
Ethylbenzene	ug/L	ND	10	10	9.7	10.3	97	103	30-150	6	30	
Hexachloro-1,3-butadiene	ug/L	ND	10	10	10.6	11.2	106	112	30-150	5	30	
Isopropylbenzene (Cumene)	ug/L	ND	10	10	10.0	10.5	100	105	30-150	5	30	
Methyl-tert-butyl ether	ug/L	ND	10	10	11.0	11.5	110	115	30-150	4	30	
Methylene Chloride	ug/L	ND	10	10	9.7	10.8	97	108	30-146	11	30	
n-Butylbenzene	ug/L	ND	10	10	9.4	10.1	94	101	30-150	7	30	
n-Propylbenzene	ug/L	ND	10	10	9.2	10	92	100	30-150	8	30	
Naphthalene	ug/L	ND	10	10	9.0	9.3	90	93	30-150	3	30	
p-Isopropyltoluene	ug/L	ND	10	10	9.7	10.2	97	102	30-150	5	30	
sec-Butylbenzene	ug/L	ND	10	10	9.2	10.2	92	102	30-150	10	30	
Styrene	ug/L	ND	10	10	9.9	10.1	99	101	30-150	3	30	
tert-Butylbenzene	ug/L	ND	10	10	9.4	10.3	94	103	30-150	10	30	
Tetrachloroethene	ug/L	7.9	10	10	17.3	18.1	94	102	30-150	5	30	
Tetrahydrofuran	ug/L	ND	100	100	108	109	108	109	30-150	1	30	
Toluene	ug/L	ND	10	10	9.3	9.9	93	99	30-150	6	30	
trans-1,2-Dichloroethene	ug/L	ND	10	10	11.3	11.6	113	116	30-150	3	30	
trans-1,3-Dichloropropene	ug/L	ND	10	10	9.0	9.8	90	98	30-150	9	30	
Trichloroethene	ug/L	2.3	10	10	12.7	13.1	104	108	30-150	3	30	
Trichlorofluoromethane	ug/L	ND	10	10	12.7	12.0	127	120	30-150	6	30	
Vinyl chloride	ug/L	ND	10	10	11.4	10.8	114	108	30-150	5	30	
Xylene (Total)	ug/L	ND	30	30	28.7	29.9	96	100	30-150	4	30	
1,2-Dichloroethane-d4 (S)	%.						105	107	75-125			
4-Bromofluorobenzene (S)	%.						95	98	75-125			
Toluene-d8 (S)	%.						94	94	75-125			

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QUALITY CONTROL DATA

Project: Pine City Airport
Pace Project No.: 10475470

QC Batch: 607515 | Analysis Method: EPA 8270D by SIM
QC Batch Method: EPA 3550 | Analysis Description: 8270D Solid PAH by SIM MSSV
Associated Lab Samples: 10475470001, 10475470002, 10475470003, 10475470004, 10475470005, 10475470006, 10475470007, 10475470008, 10475470016, 10475470017, 10475470018, 10475470019, 10475470020

METHOD BLANK: 3284153 | Matrix: Solid
Associated Lab Samples: 10475470001, 10475470002, 10475470003, 10475470004, 10475470005, 10475470006, 10475470007, 10475470008, 10475470016, 10475470017, 10475470018, 10475470019, 10475470020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/kg	ND	10.0	05/25/19 09:58	
Acenaphthylene	ug/kg	ND	10.0	05/25/19 09:58	
Anthracene	ug/kg	ND	10.0	05/25/19 09:58	
Benzo(a)anthracene	ug/kg	ND	10.0	05/25/19 09:58	
Benzo(a)pyrene	ug/kg	ND	10.0	05/25/19 09:58	
Benzo(b)fluoranthene	ug/kg	ND	10.0	05/25/19 09:58	
Benzo(g,h,i)perylene	ug/kg	ND	10.0	05/25/19 09:58	
Benzo(k)fluoranthene	ug/kg	ND	10.0	05/25/19 09:58	
Chrysene	ug/kg	ND	10.0	05/25/19 09:58	
Dibenz(a,h)anthracene	ug/kg	ND	10.0	05/25/19 09:58	
Fluoranthene	ug/kg	ND	10.0	05/25/19 09:58	
Fluorene	ug/kg	ND	10.0	05/25/19 09:58	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	10.0	05/25/19 09:58	
Naphthalene	ug/kg	ND	10.0	05/25/19 09:58	
Phenanthrene	ug/kg	ND	10.0	05/25/19 09:58	
Pyrene	ug/kg	ND	10.0	05/25/19 09:58	
2-Fluorobiphenyl (S)	%.	56	30-125	05/25/19 09:58	
p-Terphenyl-d14 (S)	%.	82	30-125	05/25/19 09:58	

LABORATORY CONTROL SAMPLE: 3284154

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	33.3	20.3	61	46-125	
Acenaphthylene	ug/kg	33.3	19.9	60	44-125	
Anthracene	ug/kg	33.3	27.3	82	62-125	
Benzo(a)anthracene	ug/kg	33.3	26.2	79	53-125	
Benzo(a)pyrene	ug/kg	33.3	27.4	82	62-125	
Benzo(b)fluoranthene	ug/kg	33.3	26.6	80	51-125	
Benzo(g,h,i)perylene	ug/kg	33.3	27.8	83	58-125	
Benzo(k)fluoranthene	ug/kg	33.3	28.0	84	59-125	
Chrysene	ug/kg	33.3	26.2	79	59-125	
Dibenz(a,h)anthracene	ug/kg	33.3	29.7	89	60-125	
Fluoranthene	ug/kg	33.3	30.5	92	67-125	
Fluorene	ug/kg	33.3	22.8	68	51-125	
Indeno(1,2,3-cd)pyrene	ug/kg	33.3	27.2	82	59-125	
Naphthalene	ug/kg	33.3	20.0	60	47-125	
Phenanthrene	ug/kg	33.3	26.9	81	61-125	
Pyrene	ug/kg	33.3	28.2	84	52-125	

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QUALITY CONTROL DATA

Project: Pine City Airport
Pace Project No.: 10475470

LABORATORY CONTROL SAMPLE: 3284154

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Fluorobiphenyl (S)	%.			56	30-125	
p-Terphenyl-d14 (S)	%.			81	30-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3284155 3284156

Parameter	Units	10475436002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/kg	ND	37.5	37.6	27.0	29.1	72	77	30-125	8	30	
Acenaphthylene	ug/kg	ND	37.5	37.6	29.3	30.9	78	82	30-125	6	30	
Anthracene	ug/kg	ND	37.5	37.6	33.6	33.1	82	80	30-131	2	30	
Benzo(a)anthracene	ug/kg	0.014 mg/kg	37.5	37.6	38.9	37.2	66	61	30-126	4	30	
Benzo(a)pyrene	ug/kg	0.026 mg/kg	37.5	37.6	41.1	40.4	41	39	30-150	2	30	
Benzo(b)fluoranthene	ug/kg	0.023 mg/kg	37.5	37.6	40.8	39.3	46	42	30-150	4	30	
Benzo(g,h,i)perylene	ug/kg	0.038 mg/kg	37.5	37.6	34.7	35.7	-8	-5	30-150	3	30	M1
Benzo(k)fluoranthene	ug/kg	ND	37.5	37.6	38.9	39.1	103	104	30-150	1	30	
Chrysene	ug/kg	0.020 mg/kg	37.5	37.6	40.6	37.7	55	48	30-150	7	30	
Dibenz(a,h)anthracene	ug/kg	ND	37.5	37.6	31.7	33.7	84	89	30-143	6	30	
Fluoranthene	ug/kg	0.025 mg/kg	37.5	37.6	54.9	50.9	80	69	30-143	8	30	
Fluorene	ug/kg	ND	37.5	37.6	29.4	30.1	78	80	30-138	3	30	
Indeno(1,2,3-cd)pyrene	ug/kg	0.014 mg/kg	37.5	37.6	33.6	34.5	51	54	30-150	3	30	
Naphthalene	ug/kg	ND	37.5	37.6	22.8	29.4	61	78	30-125	25	30	
Phenanthrene	ug/kg	ND	37.5	37.6	37.0	35.8	98	95	30-142	3	30	
Pyrene	ug/kg	0.023 mg/kg	37.5	37.6	50.7	46.9	75	65	30-149	8	30	
2-Fluorobiphenyl (S)	%.						61	72	30-125			
p-Terphenyl-d14 (S)	%.						75	75	30-125			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Pine City Airport
Pace Project No.: 10475470

QC Batch: 607900
QC Batch Method: EPA 3550
Analysis Method: EPA 8270D by SIM
Analysis Description: 8270D Solid PAH by SIM MSSV
Associated Lab Samples: 10475470021

METHOD BLANK: 3286088
Matrix: Solid
Associated Lab Samples: 10475470021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/kg	ND	10.0	05/23/19 18:17	
Acenaphthylene	ug/kg	ND	10.0	05/23/19 18:17	
Anthracene	ug/kg	ND	10.0	05/23/19 18:17	
Benzo(a)anthracene	ug/kg	ND	10.0	05/23/19 18:17	
Benzo(a)pyrene	ug/kg	ND	10.0	05/23/19 18:17	
Benzo(b)fluoranthene	ug/kg	ND	10.0	05/23/19 18:17	
Benzo(g,h,i)perylene	ug/kg	ND	10.0	05/23/19 18:17	
Benzo(k)fluoranthene	ug/kg	ND	10.0	05/23/19 18:17	
Chrysene	ug/kg	ND	10.0	05/23/19 18:17	
Dibenz(a,h)anthracene	ug/kg	ND	10.0	05/23/19 18:17	
Fluoranthene	ug/kg	ND	10.0	05/23/19 18:17	
Fluorene	ug/kg	ND	10.0	05/23/19 18:17	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	10.0	05/23/19 18:17	
Naphthalene	ug/kg	ND	10.0	05/23/19 18:17	
Phenanthrene	ug/kg	ND	10.0	05/23/19 18:17	
Pyrene	ug/kg	ND	10.0	05/23/19 18:17	
2-Fluorobiphenyl (S)	%.	78	30-125	05/23/19 18:17	
p-Terphenyl-d14 (S)	%.	84	30-125	05/23/19 18:17	

LABORATORY CONTROL SAMPLE: 3286089

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	33.3	27.9	84	46-125	
Acenaphthylene	ug/kg	33.3	27.0	81	44-125	
Anthracene	ug/kg	33.3	25.2	76	62-125	
Benzo(a)anthracene	ug/kg	33.3	29.3	88	53-125	
Benzo(a)pyrene	ug/kg	33.3	29.4	88	62-125	
Benzo(b)fluoranthene	ug/kg	33.3	27.8	83	51-125	
Benzo(g,h,i)perylene	ug/kg	33.3	29.4	88	58-125	
Benzo(k)fluoranthene	ug/kg	33.3	29.3	88	59-125	
Chrysene	ug/kg	33.3	28.9	87	59-125	
Dibenz(a,h)anthracene	ug/kg	33.3	31.1	93	60-125	
Fluoranthene	ug/kg	33.3	28.0	84	67-125	
Fluorene	ug/kg	33.3	28.4	85	51-125	
Indeno(1,2,3-cd)pyrene	ug/kg	33.3	30.1	90	59-125	
Naphthalene	ug/kg	33.3	26.7	80	47-125	
Phenanthrene	ug/kg	33.3	28.8	86	61-125	
Pyrene	ug/kg	33.3	27.3	82	52-125	
2-Fluorobiphenyl (S)	%.			82	30-125	
p-Terphenyl-d14 (S)	%.			88	30-125	

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QUALITY CONTROL DATA

Project: Pine City Airport
Pace Project No.: 10475470

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3286090 3286091

Parameter	Units	10474936008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/kg	ND	36.5	36.5	31.7	30.1	87	82	30-125	5	30	
Acenaphthylene	ug/kg	ND	36.5	36.5	33.1	32.6	91	89	30-125	1	30	
Anthracene	ug/kg	ND	36.5	36.5	32.9	32.1	90	88	30-131	2	30	
Benzo(a)anthracene	ug/kg	0.046 mg/kg	36.5	36.5	56.3	56.2	28	28	30-126	0	30	M1
Benzo(a)pyrene	ug/kg	0.039 mg/kg	36.5	36.5	51.8	51.2	34	32	30-150	1	30	
Benzo(b)fluoranthene	ug/kg	0.060 mg/kg	36.5	36.5	60.5	60.0	1	0	30-150	1	30	M1
Benzo(g,h,i)perylene	ug/kg	0.028 mg/kg	36.5	36.5	43.8	41.7	43	37	30-150	5	30	
Benzo(k)fluoranthene	ug/kg	0.022 mg/kg	36.5	36.5	43.6	41.9	59	54	30-150	4	30	
Chrysene	ug/kg	0.046 mg/kg	36.5	36.5	56.0	53.1	28	20	30-150	5	30	M1
Dibenz(a,h)anthracene	ug/kg	ND	36.5	36.5	31.7	30.8	87	84	30-143	3	30	
Fluoranthene	ug/kg	0.075 mg/kg	36.5	36.5	67.1	64.6	-22	-29	30-143	4	30	M1
Fluorene	ug/kg	ND	36.5	36.5	32.2	30.8	88	84	30-138	4	30	
Indeno(1,2,3-cd)pyrene	ug/kg	0.023 mg/kg	36.5	36.5	39.0	37.6	43	39	30-150	4	30	
Naphthalene	ug/kg	0.036 mg/kg	36.5	36.5	52.5	48.7	46	35	30-125	8	30	
Phenanthrene	ug/kg	0.062 mg/kg	36.5	36.5	65.3	60.8	10	-2	30-142	7	30	M1
Pyrene	ug/kg	0.070 mg/kg	36.5	36.5	65.3	63.7	-14	-18	30-149	2	30	M1
2-Fluorobiphenyl (S)	%.						77	75	30-125			
p-Terphenyl-d14 (S)	%.						81	81	30-125			

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QUALITY CONTROL DATA

Project: Pine City Airport
Pace Project No.: 10475470

QC Batch: 607565 | Analysis Method: EPA 8270D by SIM
QC Batch Method: EPA Mod. 3510C | Analysis Description: 8270D PAH by SIM MSSV
Associated Lab Samples: 10475470009, 10475470010, 10475470011, 10475470012, 10475470013, 10475470014, 10475470015

METHOD BLANK: 3284311 | Matrix: Water
Associated Lab Samples: 10475470009, 10475470010, 10475470011, 10475470012, 10475470013, 10475470014, 10475470015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.040	05/25/19 11:49	
Acenaphthylene	ug/L	ND	0.040	05/25/19 11:49	
Anthracene	ug/L	ND	0.040	05/25/19 11:49	
Benzo(a)anthracene	ug/L	ND	0.040	05/25/19 11:49	
Benzo(a)pyrene	ug/L	ND	0.040	05/25/19 11:49	
Benzo(b)fluoranthene	ug/L	ND	0.040	05/25/19 11:49	
Benzo(g,h,i)perylene	ug/L	ND	0.040	05/25/19 11:49	
Benzo(k)fluoranthene	ug/L	ND	0.040	05/25/19 11:49	
Chrysene	ug/L	ND	0.040	05/25/19 11:49	
Dibenz(a,h)anthracene	ug/L	ND	0.040	05/25/19 11:49	
Fluoranthene	ug/L	ND	0.040	05/25/19 11:49	
Fluorene	ug/L	ND	0.040	05/25/19 11:49	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.040	05/25/19 11:49	
Naphthalene	ug/L	ND	0.040	05/25/19 11:49	
Phenanthrene	ug/L	ND	0.040	05/25/19 11:49	
Pyrene	ug/L	ND	0.040	05/25/19 11:49	
2-Fluorobiphenyl (S)	%.	78	47-125	05/25/19 11:49	
p-Terphenyl-d14 (S)	%.	87	62-125	05/25/19 11:49	

LABORATORY CONTROL SAMPLE & LCSD: 3284312 3284313

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Acenaphthene	ug/L	1	0.77	0.75	77	75	50-125	2	20	
Acenaphthylene	ug/L	1	0.80	0.76	80	76	46-125	4	20	
Anthracene	ug/L	1	0.85	0.85	85	85	59-125	1	20	
Benzo(a)anthracene	ug/L	1	0.93	0.94	93	94	55-125	1	20	
Benzo(a)pyrene	ug/L	1	0.96	0.99	96	99	66-125	4	20	
Benzo(b)fluoranthene	ug/L	1	0.90	0.90	90	90	64-125	0	20	
Benzo(g,h,i)perylene	ug/L	1	0.92	0.92	92	92	58-125	0	20	
Benzo(k)fluoranthene	ug/L	1	0.97	0.99	97	99	60-125	2	20	
Chrysene	ug/L	1	0.85	0.87	85	87	62-125	2	20	
Dibenz(a,h)anthracene	ug/L	1	0.95	0.93	95	93	51-125	2	20	
Fluoranthene	ug/L	1	0.90	0.90	90	90	64-125	0	20	
Fluorene	ug/L	1	0.83	0.82	83	82	55-125	1	20	
Indeno(1,2,3-cd)pyrene	ug/L	1	0.93	0.94	93	94	61-125	1	20	
Naphthalene	ug/L	1	0.66	0.64	66	64	48-125	3	20	
Phenanthrene	ug/L	1	0.81	0.82	81	82	63-125	2	20	
Pyrene	ug/L	1	0.91	0.92	91	92	61-125	1	20	
2-Fluorobiphenyl (S)	%.				72	68	47-125			
p-Terphenyl-d14 (S)	%.				89	88	62-125			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Pine City Airport
Pace Project No.: 10475470

QC Batch: 607482 | Analysis Method: WI MOD DRO
QC Batch Method: WI MOD DRO | Analysis Description: WIDRO Solid GCV
Associated Lab Samples: 10475470001, 10475470002, 10475470003, 10475470004, 10475470005, 10475470006, 10475470007, 10475470008, 10475470016, 10475470017, 10475470018, 10475470019, 10475470020, 10475470021

METHOD BLANK: 3283918 | Matrix: Solid
Associated Lab Samples: 10475470001, 10475470002, 10475470003, 10475470004, 10475470005, 10475470006, 10475470007, 10475470008, 10475470016, 10475470017, 10475470018, 10475470019, 10475470020, 10475470021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
WDRO C10-C28	mg/kg	ND	10.0	05/23/19 22:21	
n-Triacontane (S)	%.	93	44-143	05/23/19 22:21	

LABORATORY CONTROL SAMPLE & LCSD: 3283919 3283920

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
WDRO C10-C28	mg/kg	80	71.4	68.7	89	86	61-125	4	20	
n-Triacontane (S)	%.				99	98	44-143			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Pine City Airport
Pace Project No.: 10475470

QC Batch: 606942 | Analysis Method: WI MOD DRO
QC Batch Method: WI MOD DRO | Analysis Description: WIDRO Low Volume GCS w/Cleanup
Associated Lab Samples: 10475470009, 10475470010, 10475470011, 10475470012

METHOD BLANK: 3281022 | Matrix: Water
Associated Lab Samples: 10475470009, 10475470010, 10475470011, 10475470012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
WDRO C10-C28	mg/L	ND	0.10	05/23/19 12:11	
n-Triacontane (S)	%.	89	48-125	05/23/19 12:11	

LABORATORY CONTROL SAMPLE & LCSD: 3281023 3281024

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
WDRO C10-C28	mg/L	0.8	0.64	0.66	80	83	39-125	3	20	
n-Triacontane (S)	%.				88	90	48-125			

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QUALITY CONTROL DATA

Project: Pine City Airport
Pace Project No.: 10475470

QC Batch: 607562 | Analysis Method: WI MOD DRO
QC Batch Method: WI MOD DRO | Analysis Description: WIDRO Low Volume GCS w/Cleanup
Associated Lab Samples: 10475470013, 10475470014, 10475470015

METHOD BLANK: 3284300 | Matrix: Water
Associated Lab Samples: 10475470013, 10475470014, 10475470015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
WDRO C10-C28	mg/L	ND	0.10	05/24/19 11:00	
n-Triacontane (S)	%.	100	48-125	05/24/19 11:00	

LABORATORY CONTROL SAMPLE & LCSD: 3284301 3284302

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
WDRO C10-C28	mg/L	0.8	0.72	0.70	89	88	39-125	2	20	
n-Triacontane (S)	%.				101	102	48-125			

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QUALIFIERS

Project: Pine City Airport
Pace Project No.: 10475470

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

WORKORDER QUALIFIERS

WO: 10475470

[1]	Samples were received outside of the recommended temperature range of 0-6 degrees Celsius. The samples were received from the field on ice.

BATCH QUALIFIERS

Batch: 608443

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

A5	Greater than 5% sediment in sample determined by visual observation. Aqueous portion decanted from the sediment and extracted. The sample container could not be rinsed with solvent per the method requirement.
C0	Result confirmed by second analysis.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
G-	Early peaks present outside the GRO window.
HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALIFIERS

Project: Pine City Airport
Pace Project No.: 10475470

ANALYTE QUALIFIERS

N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
P3	Sample extract could not be concentrated to the routine final volume, resulting in elevated reporting limits.
R1	RPD value was outside control limits.
SS	This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.
T6	High boiling point hydrocarbons are present in the sample.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Pine City Airport
Pace Project No.: 10475470

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10475470001	**DP-1 (1-3')**	WI MOD DRO	607482	WI MOD DRO	608190
10475470002	**DP-2 (1-2')**	WI MOD DRO	607482	WI MOD DRO	608190
10475470003	**DP-3 (1-3')**	WI MOD DRO	607482	WI MOD DRO	608190
10475470004	**DP-4 (1-3')**	WI MOD DRO	607482	WI MOD DRO	608190
10475470005	**DP-5 (3-5')**	WI MOD DRO	607482	WI MOD DRO	608190
10475470006	**DP-6 (3-5')**	WI MOD DRO	607482	WI MOD DRO	608190
10475470007	**DP-7 (4-6')**	WI MOD DRO	607482	WI MOD DRO	608190
10475470008	**DP-8 (5-7')**	WI MOD DRO	607482	WI MOD DRO	608190
10475470016	**SP-1**	WI MOD DRO	607482	WI MOD DRO	608190
10475470017	**SP-2**	WI MOD DRO	607482	WI MOD DRO	608190
10475470018	**SP-3**	WI MOD DRO	607482	WI MOD DRO	608190
10475470019	**SP-4**	WI MOD DRO	607482	WI MOD DRO	608190
10475470020	**SP-5**	WI MOD DRO	607482	WI MOD DRO	608190
10475470021	**SP-6**	WI MOD DRO	607482	WI MOD DRO	608190
10475470009	**MWGW**	WI MOD DRO	606942	WI MOD DRO	607762
10475470010	**DP-1 GW**	WI MOD DRO	606942	WI MOD DRO	607762
10475470011	**DP-2 GW**	WI MOD DRO	606942	WI MOD DRO	607762
10475470012	**DP-3 GW**	WI MOD DRO	606942	WI MOD DRO	607762
10475470013	**DP-4 GW**	WI MOD DRO	607562	WI MOD DRO	608262
10475470014	**DP-5 GW**	WI MOD DRO	607562	WI MOD DRO	608262
10475470015	**DP-8 GW**	WI MOD DRO	607562	WI MOD DRO	608262
10475470001	**DP-1 (1-3')**	EPA 5030 Medium Soil	608497	WI MOD GRO	608766
10475470002	**DP-2 (1-2')**	EPA 5030 Medium Soil	608497	WI MOD GRO	608766
10475470003	**DP-3 (1-3')**	EPA 5030 Medium Soil	608497	WI MOD GRO	608766
10475470004	**DP-4 (1-3')**	EPA 5030 Medium Soil	608555	WI MOD GRO	609050
10475470005	**DP-5 (3-5')**	EPA 5030 Medium Soil	608555	WI MOD GRO	609050
10475470006	**DP-6 (3-5')**	EPA 5030 Medium Soil	608555	WI MOD GRO	609050
10475470007	**DP-7 (4-6')**	EPA 5030 Medium Soil	609052	WI MOD GRO	609160
10475470008	**DP-8 (5-7')**	EPA 5030 Medium Soil	608555	WI MOD GRO	609050
10475470016	**SP-1**	EPA 5030 Medium Soil	608555	WI MOD GRO	609050
10475470017	**SP-2**	EPA 5030 Medium Soil	608555	WI MOD GRO	609050
10475470018	**SP-3**	EPA 5030 Medium Soil	608555	WI MOD GRO	609050
10475470019	**SP-4**	EPA 5030 Medium Soil	608555	WI MOD GRO	609050
10475470020	**SP-5**	EPA 5030 Medium Soil	608555	WI MOD GRO	609050
10475470021	**SP-6**	EPA 5030 Medium Soil	608555	WI MOD GRO	609050
10475470022	**SL-Trip Blank**	EPA 5030 Medium Soil	608555	WI MOD GRO	609050
10475470009	**MWGW**	WI MOD GRO	609570		
10475470010	**DP-1 GW**	WI MOD GRO	609570		
10475470011	**DP-2 GW**	WI MOD GRO	609570		
10475470012	**DP-3 GW**	WI MOD GRO	609570		
10475470013	**DP-4 GW**	WI MOD GRO	609570		
10475470014	**DP-5 GW**	WI MOD GRO	609570		
10475470015	**DP-8 GW**	WI MOD GRO	609570		
10475470023	**WT-Trip Blank**	WI MOD GRO	609570		
10475470001	**DP-1 (1-3')**	EPA 3050	607782	EPA 6010D	608594

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Pine City Airport
Pace Project No.: 10475470

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10475470002	**DP-2 (1-2')**	EPA 3050	607782	EPA 6010D	608594
10475470003	**DP-3 (1-3')**	EPA 3050	607782	EPA 6010D	608594
10475470004	**DP-4 (1-3')**	EPA 3050	607782	EPA 6010D	608594
10475470005	**DP-5 (3-5')**	EPA 3050	607782	EPA 6010D	608594
10475470006	**DP-6 (3-5')**	EPA 3050	607782	EPA 6010D	608594
10475470007	**DP-7 (4-6')**	EPA 3050	607782	EPA 6010D	608594
10475470008	**DP-8 (5-7')**	EPA 3050	607782	EPA 6010D	608594
10475470016	**SP-1**	EPA 3050	607782	EPA 6010D	608594
10475470017	**SP-2**	EPA 3050	607782	EPA 6010D	608594
10475470018	**SP-3**	EPA 3050	607782	EPA 6010D	608594
10475470019	**SP-4**	EPA 3050	607782	EPA 6010D	608594
10475470020	**SP-5**	EPA 3050	607782	EPA 6010D	608594
10475470021	**SP-6**	EPA 3050	607782	EPA 6010D	608594
10475470009	**MWGW**	EPA 3010	607808	EPA 6010D	608209
10475470010	**DP-1 GW**	EPA 3010	607808	EPA 6010D	608209
10475470011	**DP-2 GW**	EPA 3010	607808	EPA 6010D	608209
10475470012	**DP-3 GW**	EPA 3010	607808	EPA 6010D	608209
10475470013	**DP-4 GW**	EPA 3010	607808	EPA 6010D	608209
10475470014	**DP-5 GW**	EPA 3010	607808	EPA 6010D	608209
10475470015	**DP-8 GW**	EPA 3010	607808	EPA 6010D	608209
10475470009	**MWGW**	EPA 7470A	606915	EPA 7470A	608064
10475470010	**DP-1 GW**	EPA 7470A	606915	EPA 7470A	608064
10475470011	**DP-2 GW**	EPA 7470A	606915	EPA 7470A	608064
10475470012	**DP-3 GW**	EPA 7470A	606915	EPA 7470A	608064
10475470013	**DP-4 GW**	EPA 7470A	606915	EPA 7470A	608064
10475470014	**DP-5 GW**	EPA 7470A	606915	EPA 7470A	608064
10475470015	**DP-8 GW**	EPA 7470A	606915	EPA 7470A	608064
10475470001	**DP-1 (1-3')**	EPA 7471B	607840	EPA 7471B	608572
10475470002	**DP-2 (1-2')**	EPA 7471B	607840	EPA 7471B	608572
10475470003	**DP-3 (1-3')**	EPA 7471B	607840	EPA 7471B	608572
10475470004	**DP-4 (1-3')**	EPA 7471B	607840	EPA 7471B	608572
10475470005	**DP-5 (3-5')**	EPA 7471B	607840	EPA 7471B	608572
10475470006	**DP-6 (3-5')**	EPA 7471B	607840	EPA 7471B	608572
10475470007	**DP-7 (4-6')**	EPA 7471B	607840	EPA 7471B	608572
10475470008	**DP-8 (5-7')**	EPA 7471B	607840	EPA 7471B	608572
10475470016	**SP-1**	EPA 7471B	607840	EPA 7471B	608572
10475470017	**SP-2**	EPA 7471B	607840	EPA 7471B	608572
10475470018	**SP-3**	EPA 7471B	607840	EPA 7471B	608572
10475470019	**SP-4**	EPA 7471B	607840	EPA 7471B	608572
10475470020	**SP-5**	EPA 7471B	607840	EPA 7471B	608572
10475470021	**SP-6**	EPA 7471B	607840	EPA 7471B	608572
10475470001	**DP-1 (1-3')**	ASTM D2974	608191		
10475470002	**DP-2 (1-2')**	ASTM D2974	608191		
10475470003	**DP-3 (1-3')**	ASTM D2974	608191		
10475470004	**DP-4 (1-3')**	ASTM D2974	608191		
10475470005	**DP-5 (3-5')**	ASTM D2974	608191		
10475470006	**DP-6 (3-5')**	ASTM D2974	608191		

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Pine City Airport
Pace Project No.: 10475470

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10475470007	**DP-7 (4-6')**	ASTM D2974	608191		
10475470008	**DP-8 (5-7')**	ASTM D2974	608191		
10475470016	**SP-1**	ASTM D2974	608191		
10475470017	**SP-2**	ASTM D2974	608191		
10475470018	**SP-3**	ASTM D2974	608193		
10475470019	**SP-4**	ASTM D2974	608196		
10475470020	**SP-5**	ASTM D2974	608196		
10475470021	**SP-6**	ASTM D2974	608196		
10475470001	**DP-1 (1-3')**	EPA 3550	607515	EPA 8270D by SIM	608442
10475470002	**DP-2 (1-2')**	EPA 3550	607515	EPA 8270D by SIM	608442
10475470003	**DP-3 (1-3')**	EPA 3550	607515	EPA 8270D by SIM	608442
10475470004	**DP-4 (1-3')**	EPA 3550	607515	EPA 8270D by SIM	608442
10475470005	**DP-5 (3-5')**	EPA 3550	607515	EPA 8270D by SIM	608442
10475470006	**DP-6 (3-5')**	EPA 3550	607515	EPA 8270D by SIM	608442
10475470007	**DP-7 (4-6')**	EPA 3550	607515	EPA 8270D by SIM	608442
10475470008	**DP-8 (5-7')**	EPA 3550	607515	EPA 8270D by SIM	608442
10475470016	**SP-1**	EPA 3550	607515	EPA 8270D by SIM	608442
10475470017	**SP-2**	EPA 3550	607515	EPA 8270D by SIM	608442
10475470018	**SP-3**	EPA 3550	607515	EPA 8270D by SIM	608442
10475470019	**SP-4**	EPA 3550	607515	EPA 8270D by SIM	608442
10475470020	**SP-5**	EPA 3550	607515	EPA 8270D by SIM	608442
10475470021	**SP-6**	EPA 3550	607900	EPA 8270D by SIM	608127
10475470009	**MWGW**	EPA Mod. 3510C	607565	EPA 8270D by SIM	608443
10475470010	**DP-1 GW**	EPA Mod. 3510C	607565	EPA 8270D by SIM	608443
10475470011	**DP-2 GW**	EPA Mod. 3510C	607565	EPA 8270D by SIM	608443
10475470012	**DP-3 GW**	EPA Mod. 3510C	607565	EPA 8270D by SIM	608443
10475470013	**DP-4 GW**	EPA Mod. 3510C	607565	EPA 8270D by SIM	608443
10475470014	**DP-5 GW**	EPA Mod. 3510C	607565	EPA 8270D by SIM	608443
10475470015	**DP-8 GW**	EPA Mod. 3510C	607565	EPA 8270D by SIM	608443
10475470001	**DP-1 (1-3')**	EPA 5035/5030B	608364	EPA 8260B	608392
10475470002	**DP-2 (1-2')**	EPA 5035/5030B	608364	EPA 8260B	608392
10475470003	**DP-3 (1-3')**	EPA 5035/5030B	608364	EPA 8260B	608392
10475470004	**DP-4 (1-3')**	EPA 5035/5030B	608364	EPA 8260B	608392
10475470005	**DP-5 (3-5')**	EPA 5035/5030B	608364	EPA 8260B	608392
10475470006	**DP-6 (3-5')**	EPA 5035/5030B	608364	EPA 8260B	608392
10475470007	**DP-7 (4-6')**	EPA 5035/5030B	608364	EPA 8260B	608392
10475470008	**DP-8 (5-7')**	EPA 5035/5030B	608364	EPA 8260B	608392
10475470016	**SP-1**	EPA 5035/5030B	608364	EPA 8260B	608392
10475470017	**SP-2**	EPA 5035/5030B	608364	EPA 8260B	608392
10475470018	**SP-3**	EPA 5035/5030B	608364	EPA 8260B	608392
10475470019	**SP-4**	EPA 5035/5030B	608364	EPA 8260B	608392
10475470020	**SP-5**	EPA 5035/5030B	608364	EPA 8260B	608392
10475470021	**SP-6**	EPA 5035/5030B	608364	EPA 8260B	608392
10475470022	**SL-Trip Blank**	EPA 5035/5030B	608364	EPA 8260B	608392
10475470009	**MWGW**	EPA 8260B	609186		

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Pine City Airport
Pace Project No.: 10475470

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10475470010	**DP-1 GW**	EPA 8260B	608780		
10475470011	**DP-2 GW**	EPA 8260B	608780		
10475470012	**DP-3 GW**	EPA 8260B	608780		
10475470013	**DP-4 GW**	EPA 8260B	608780		
10475470014	**DP-5 GW**	EPA 8260B	608780		
10475470015	**DP-8 GW**	EPA 8260B	608780		
10475470023	**WT-Trip Blank**	EPA 8260B	609026		

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CHAIN-OF-CUSTODY

The Chain-of-Custody is a LEGAL DOC

WO# : 10475470

10475470

2281888

Section A
Required Client Information:

Company: Carlson McCain
Address: 3890 Pheasant Ridge Dr NE
Blaine, MN 55449
Email To: Danny Margarit
Phone: Fax:
Requested Due Date/TAT:

Section B
Required Project Information:

Report To: Danny Margarit
Copy To: John Lichter
Purchase Order No.:
Project Name: Pine City Airport
Project Number:

Section C
Invoice Informa

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 39866

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MN

Section D
Required Client Information

Matrix Codes
MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): DRO w/Silica	GRO	VOC	PAHS	RCRA Metals-diss.	RCRA metals	Dry Weight	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	DP-1 (1-3')	SL	C			5/17/19	843											X	X	X	X	X	X			W1
2	DP-2 (1-2')						1330											X				X	X			W2
3	DP-3 (1-3')						1139											X				X	X			W3
4	DP-4 (1-3')						1217															X	X			W4
5	DP-5 (3-5')						1039															X	X			W5
6	DP-6 (3-5')						1026															X	X			W6
7	DP-7 (4-6')						1119															X	X			W7
8	DP-8 (5-7')						1258															X	X			W8
9	MW GW		G				1420														X					W9
10	DP-1 GW						855														X					W10
11	DP-2 GW						1337														X					W11
12	DP-3 GW						1157														X					W12

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	Danny Margarit	5/17/19	1824	PACE	5/17/19	1820

SAMPLE CONDITIONS

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
14.3 4.5 7.9 11.5 9.2	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Danny Margarit
SIGNATURE of SAMPLER: Danny Margarit
DATE Signed (MM/DD/YY): 5/17/19

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-C-010-rev.00, 09Nov2017

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2281887

Section A Required Client Information:

Company: Carlson McCain
Address:
Email To: Danny Margarit
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Danny Margarit
Copy To: John Lichter
Purchase Order No.:
Project Name: Pine City Airport
Project Number:

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 39866

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MN

Section D Required Client Information

Matrix Codes (see valid codes to left) — MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Sample Type (G=GRAB C=COMP)

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): DRO w/ silica (Y); GRO (Y); VOC (Y); PAHs (Y); RCRA metals-4 (Y); RCRA metals (Y); VOC weight (Y)

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N) DRO w/ silica	GRO	VOC	PAHs	RCRA metals-4	RCRA metals	VOC weight	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	DP-4 GW	WT	G			5/17/19	1226											X	X	X	X	X				013
2	DP-5 GW	WT	G				1045															X				014
3	DP-8 GW	WT	G				1307															X				015
4	SP-1	SL	C				1500																X	X		016
5	SP-2						1519																X	X		017
6	SP-3						1542																X	X		018
7	SP-4						1558																X	X		019
8	SP-5						1619																X	X		020
9	SP-6						1644																X	X		021
10	Trip Blanks CG 5/18/19	SL							6																	022
11	Trip Blanks CG 5/18/19	WT							6																	023
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	Danny Margarit	5/17/19	1823	PACE	5/17/19	1820

SAMPLE CONDITIONS: Temp in °C: 14.3, 4.5, 7.9, 11.5, 9.2; Received on Ice (Y/N): Y; Custody Sealed Cooler (Y/N): N; Samples Intact (Y/N): Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Danny Margarit
SIGNATURE of SAMPLER: Danny Margarit
DATE Signed (MM/DD/YY): 5/17/19

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-C-010-rev.00, 09Nov2017

Pace Analytical	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 09May2019 Page 1 of 1
	Document No.: **F-MN-L-213-rev.28**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Carlson McCain

Project #: WO#: 10475470
PM: TS1 Due Date: 06/04/19
CLIENT: CARLSON PROF

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Pace ☐ SpeeDee ☐ Commercial See Exception ☐

Tracking Number: _____

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No **Biological Tissue Frozen?** ☐ Yes ☐ No ☒ N/A

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☒ Other: PB **Temp Blank?** ☒ Yes ☐ No

Thermometer: ☐ T1(0461) ☐ T2(1336) ☐ T3(0459) ☐ T4(0254) ☒ T5(0489) **Type of Ice:** ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted

Note: Each West Virginia Sample must have temp taken (no temp blanks)

Temp should be above freezing to 6°C **Cooler Temp Read w/temp blank:** 14.4, 14.6, 8.0, 11.6, 9.3 °C

Correction Factor: -0.1 **Cooler Temp Corrected w/temp blank:** 14.3, 14.5, 7.9, 11.5, 9.2 °C

Average Corrected Temp (no temp blank only): _____ °C See Exceptions ☒

USDA Regulated Soil: (☐ N/A, water sample/Other: _____) **Date/Initials of Person Examining Contents:** CG 5/18/19

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☒ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present and Filled Out?	☒ Yes	☐ No		1.
Chain of Custody Relinquished?	☒ Yes	☐ No		2.
Sampler Name and/or Signature on COC?	☒ Yes	☐ No	☐ N/A	3.
Samples Arrived within Hold Time?	☒ Yes	☐ No		4.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No		5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other_____
Rush Turn Around Time Requested?	☐ Yes	☒ No		6.
Sufficient Volume?	☒ Yes	☐ No		7.
Correct Containers Used?	☒ Yes	☐ No		8.
-Pace Containers Used?	☒ Yes	☐ No		
Containers Intact?	☒ Yes	☐ No		9.
Field Filtered Volume Received for Dissolved Tests?	☒ Yes	☐ No	☐ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☒ No
Is sufficient information available to reconcile the samples to the COC?	☐ Yes	☒ No		11. **If no, write ID/ Date/Time on Container Below:** See Exception ☐ Did not receive sample DP-7 (4-6), but did receive sample DP-7 (3-5)
Matrix: ☒ Water ☒ Soil ☐ Oil ☐ Other_____				
All containers needing acid/base preservation have been checked?	☒ Yes	☐ No	☐ N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide)	☒ Yes	☐ No	☐ N/A	☐ NaOH ☒ HNO_3 ☐ H_2SO_4 ☐ Zinc Acetate 7/7
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☒ Yes	☐ No	☐ N/A	Positive for Res. Chlorine? ☐ Yes ☐ No **pH Paper Lot#** See Exception ☐
				Res. Chlorine: 0-6 Roll: 0-6 Strip: 0-14 Strip:
Headspace in VOA Vials (greater than 6mm)?	☒ Yes	☐ No	☐ N/A	13. See Exception ☒
Trip Blank Present?	☒ Yes	☐ No	☐ N/A	14.
Trip Blank Custody Seals Present?	☒ Yes	☐ No	☐ N/A	Pace Trip Blank Lot # (if purchased): 207797, 041519-3

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Dan Margarit Date/Time: 5/20/19

Comments/Resolution: Client verified that sample DP-7 (3-5) is sample DP-7 (4-6). What is listed on the COC is correct.

Project Manager Review: Ina Soltani **Date:** 5/21/19

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

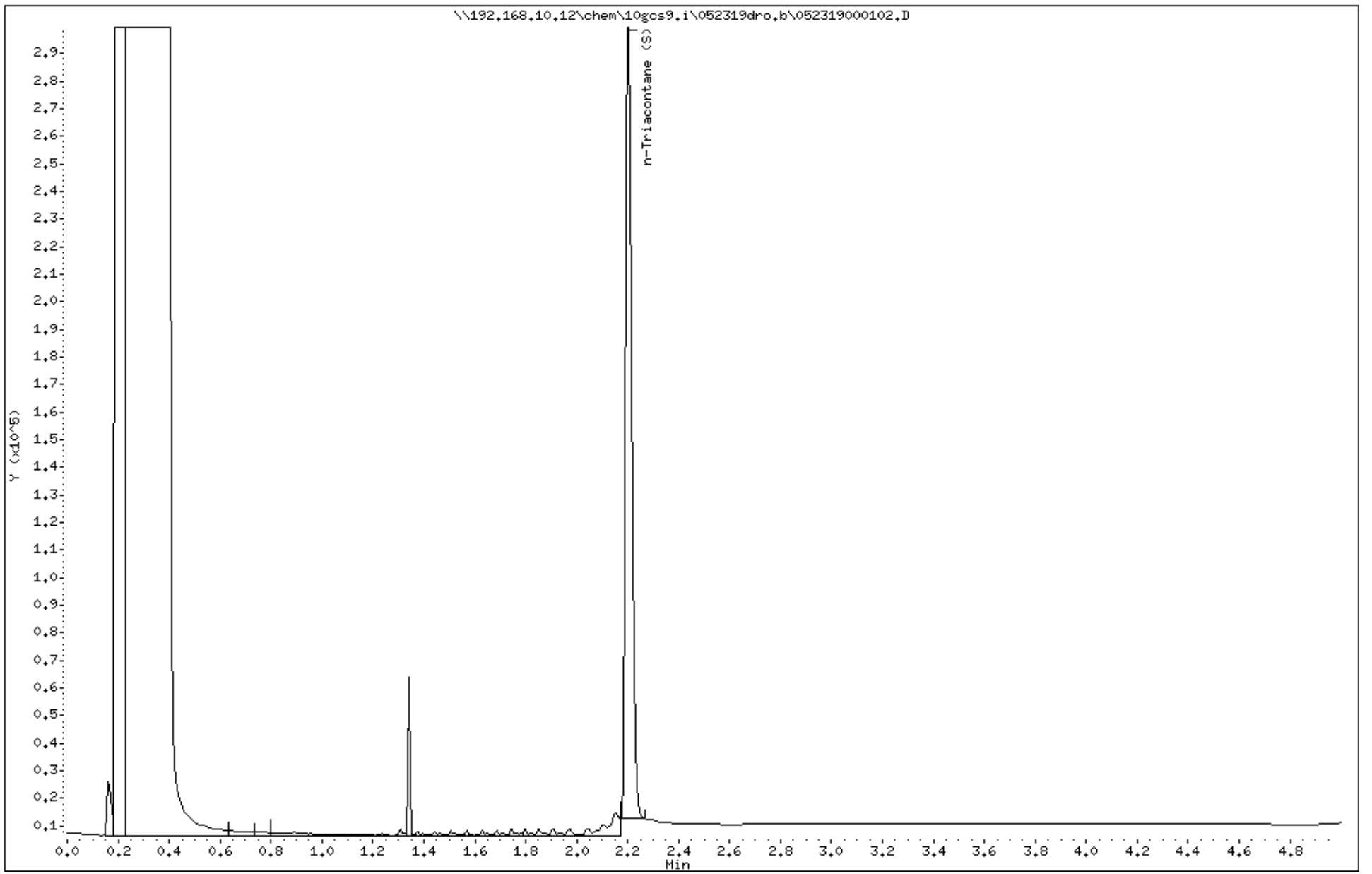
Labeled by: CG/CG

Pace Analytical	Document Name: **Headspace Exception**	Document Revised: 17Dec2018 Page 1 of 1
	Document No.: **F-MN-C-276-Rev.01**	Issuing Authority: Pace Minnesota Quality Office

Sample ID	Headspace greater than 6mm	Headspace less than 6mm	No Headspace	Total Vials	Sediment Present?
MW GW	0	4	2	6	N
DP-1 GW	0	1	5	6	N
DP-2 GW	0	2	4	6	N
DP-3 GW	0	6	0	6	N
DP-4 GW	0	5	1	6	N
DP-5 GW	0	6	0	6	N
DP-8 GW	0	6	0	6	N
Trip Blank	1	7	0	8	N

Data File: \\192.168.10.12\chem\10gcs9.i\052319dro.b\052319000102.D
Date : 23-MAY-2019 23:28
Client ID: DP-1 (1-3')
Sample Info: 10475470001
Volume Injected (uL): 1.0
Column phase: DB-5-US18180013

Instrument: 10gcs9.i
Operator: JVM
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10gcs9.i\052319dro.b\052319000101.D

Date : 23-MAY-2019 23:21

Client ID: DP-2 (1-2')

Instrument: 10gcs9.i

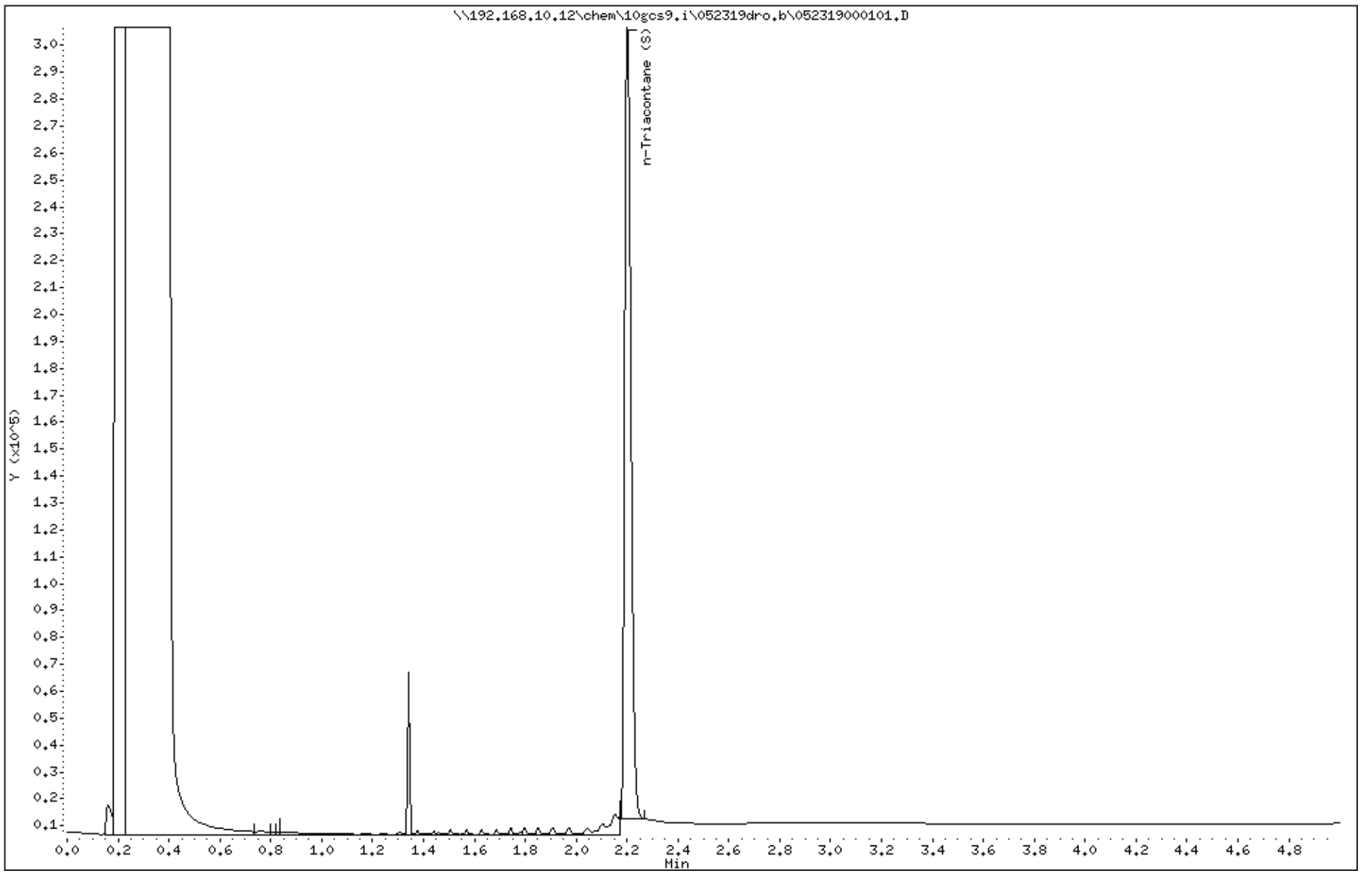
Sample Info: 10475470002

Volume Injected (uL): 1.0

Operator: JVM

Column phase: DB-5-US18180013

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10gcs9.i\052319dro.b\052319000107.D

Date : 24-MAY-2019 00:01

Client ID: DP-3 (1-3')

Instrument: 10gcs9.i

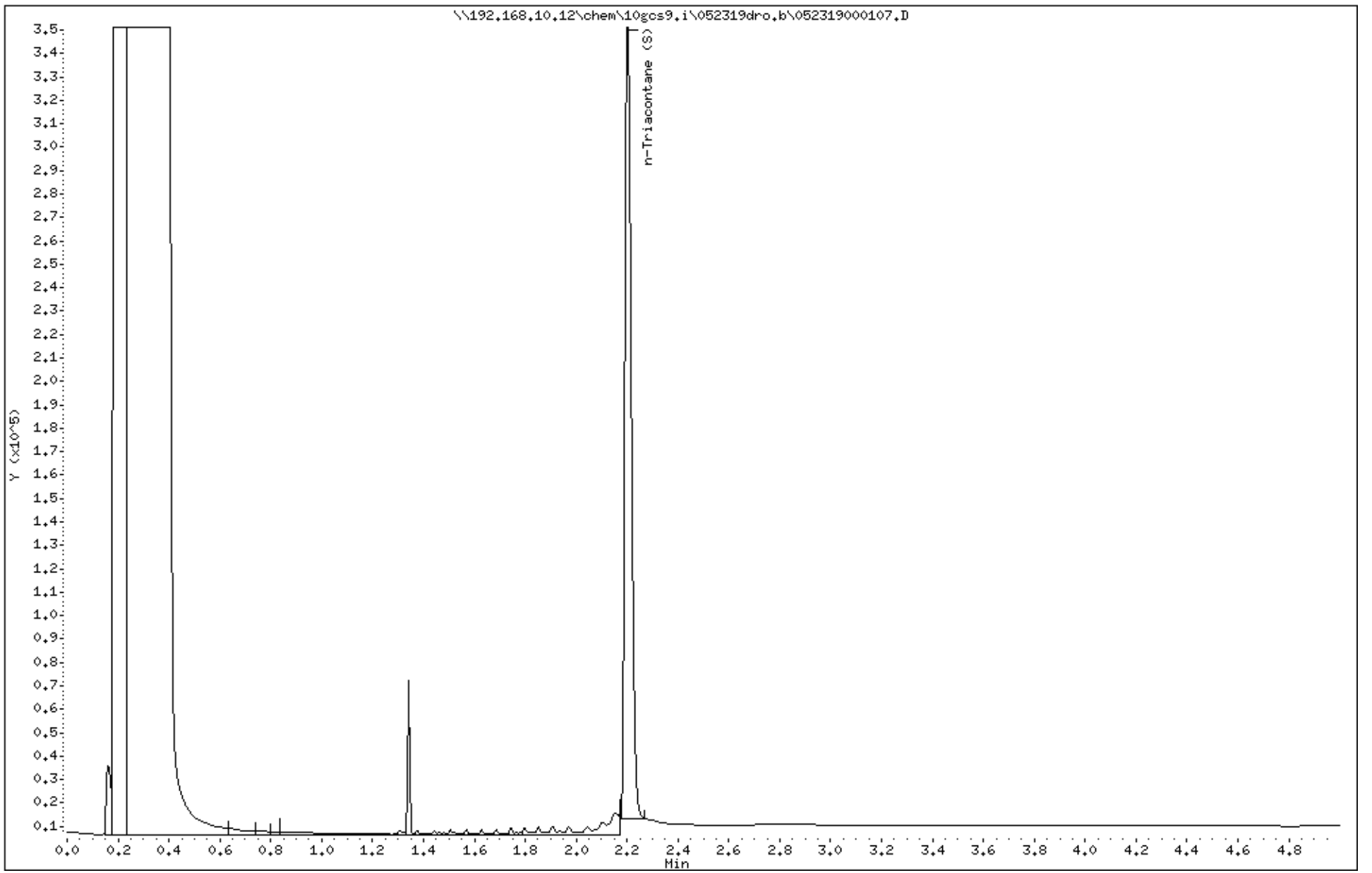
Sample Info: 10475470003

Volume Injected (uL): 1.0

Operator: JVM

Column phase: DB-5-US18180013

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10gcs9.i\052319dro.b\052319000099.D

Date : 23-MAY-2019 23:07

Client ID: DP-4 (1-3')

Instrument: 10gcs9.i

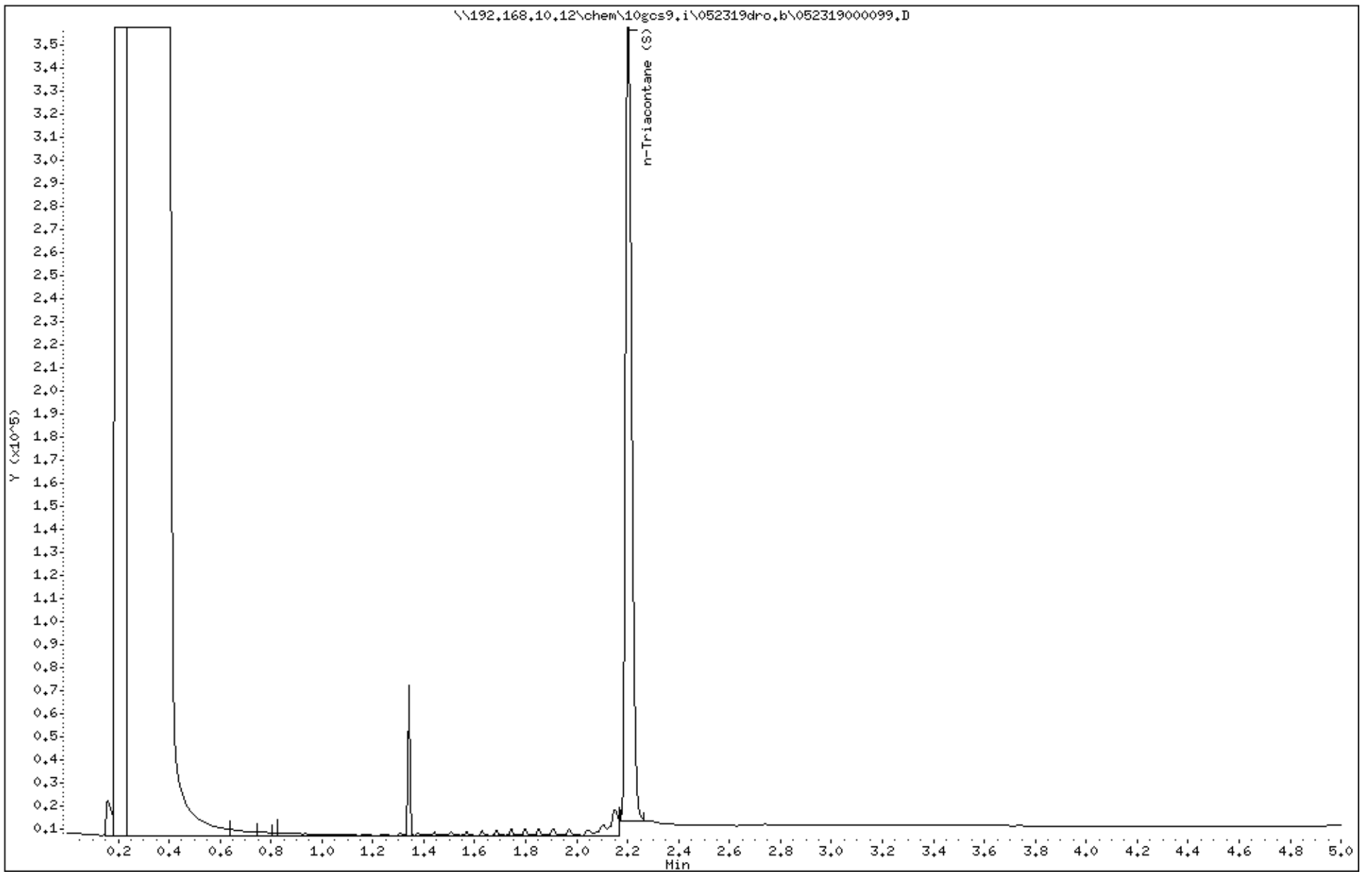
Sample Info: 10475470004

Volume Injected (uL): 1.0

Operator: JVM

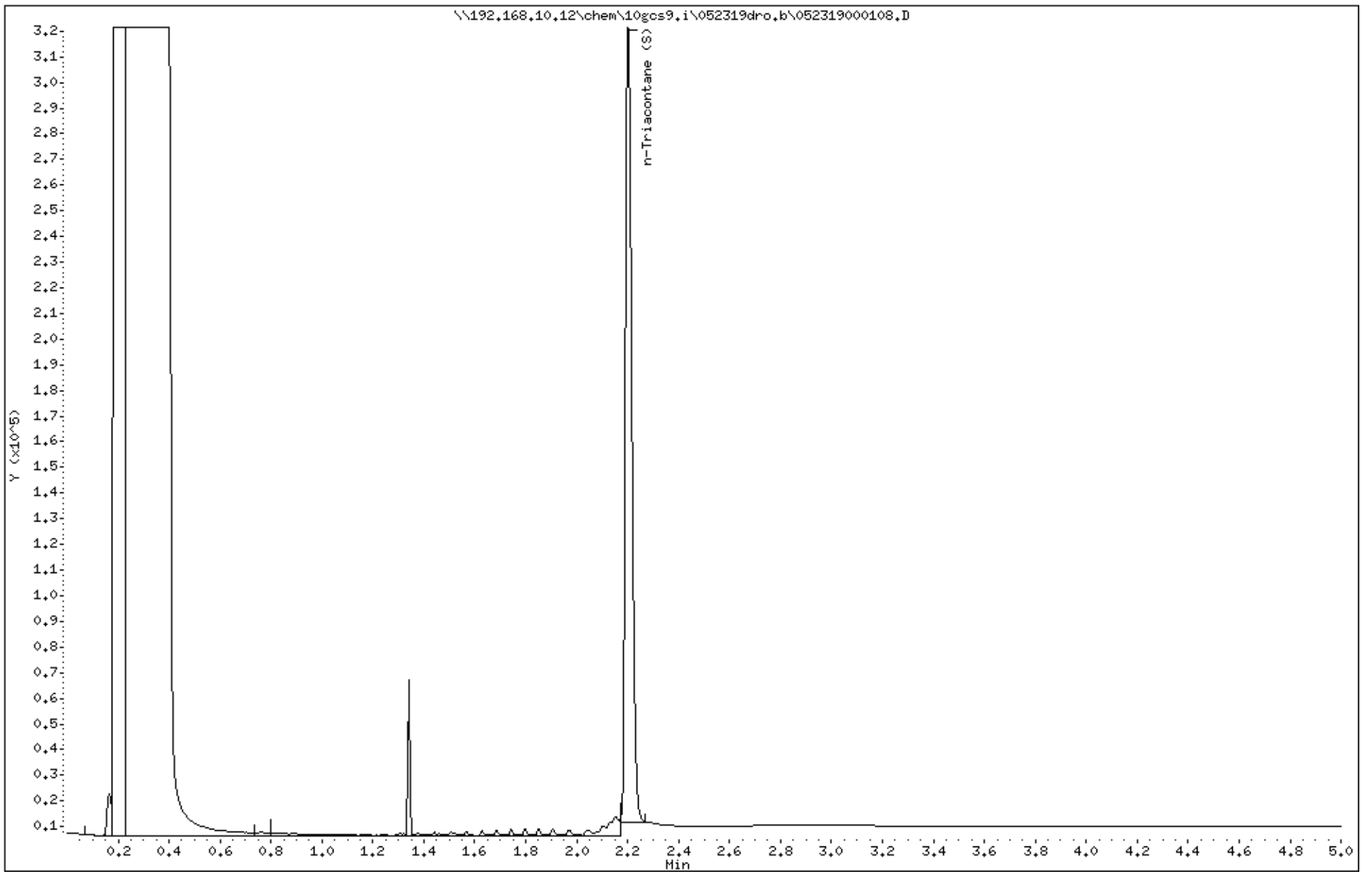
Column phase: DB-5-US18180013

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10gcs9.i\052319dro.b\052319000108.D
Date : 24-MAY-2019 00:07
Client ID: DP-5 (3-5')
Sample Info: 10475470005
Volume Injected (uL): 1.0
Column phase: DB-5-US18180013

Instrument: 10gcs9.i
Operator: JVM
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10gcs9.i\052319dro.b\052319000109.D

Date : 24-MAY-2019 00:14

Client ID: DP-6 (3-5')

Instrument: 10gcs9.i

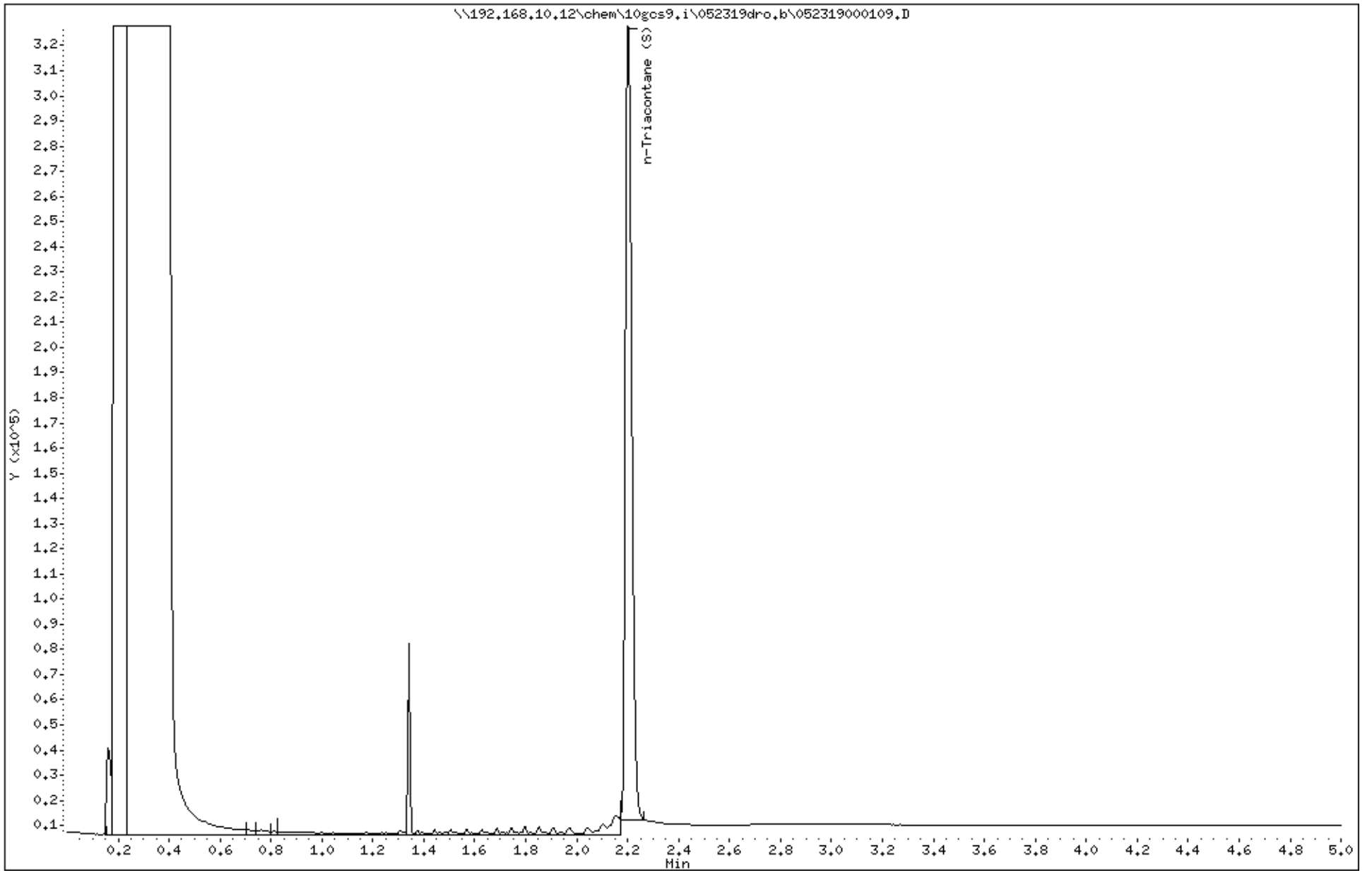
Sample Info: 10475470006

Volume Injected (uL): 1.0

Operator: JVM

Column phase: DB-5-US18180013

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10gcs9.i\052319dro.b\052319000110.D

Date : 24-MAY-2019 00:21

Client ID: DP-7 (4-6')

Instrument: 10gcs9.i

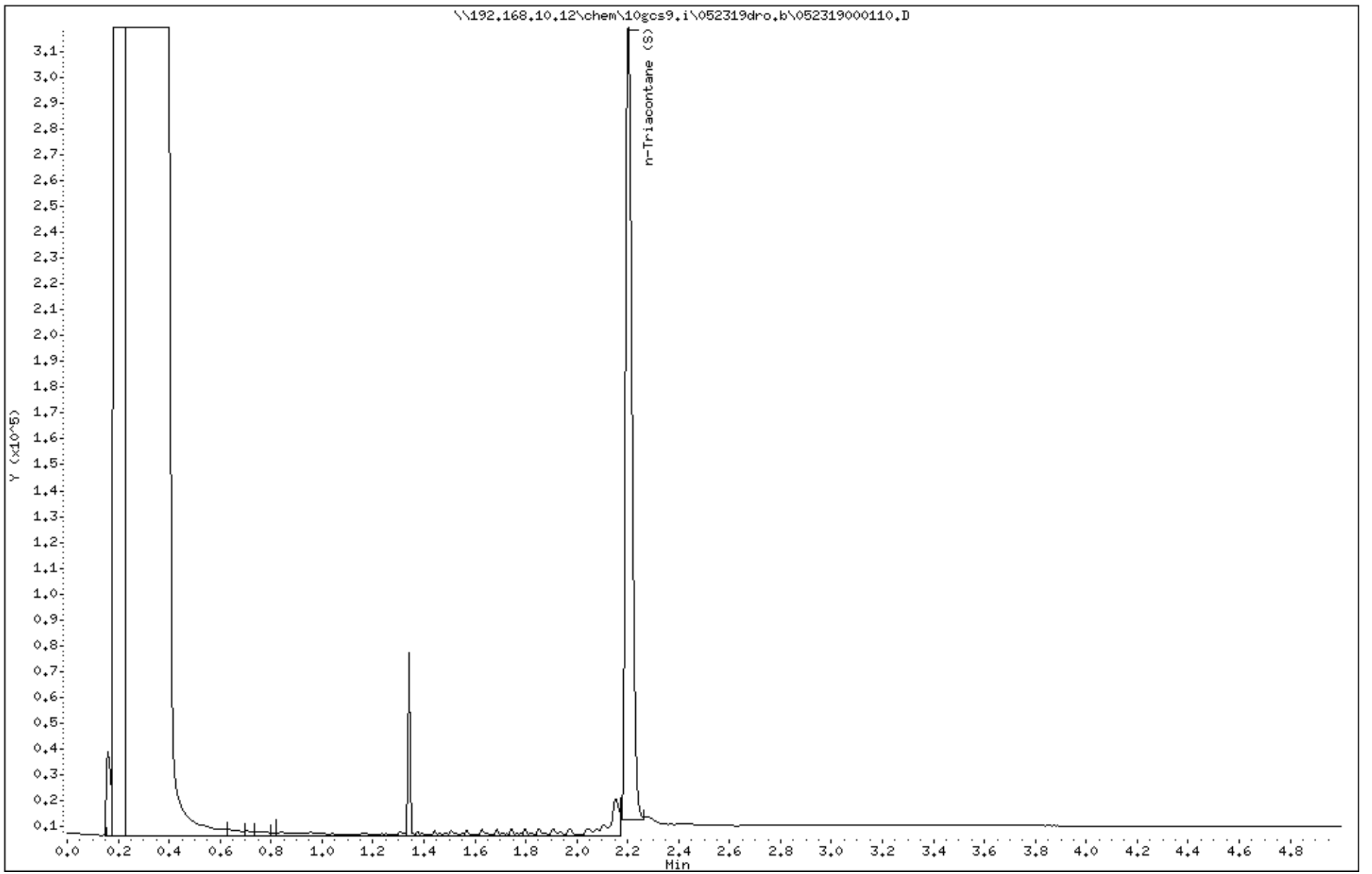
Sample Info: 10475470007

Volume Injected (uL): 1.0

Operator: JVM

Column phase: DB-5-US18180013

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10gcs9.i\052319dro.b\052319000100.D

Date : 23-MAY-2019 23:14

Client ID: DP-8 (5-7')

Instrument: 10gcs9.i

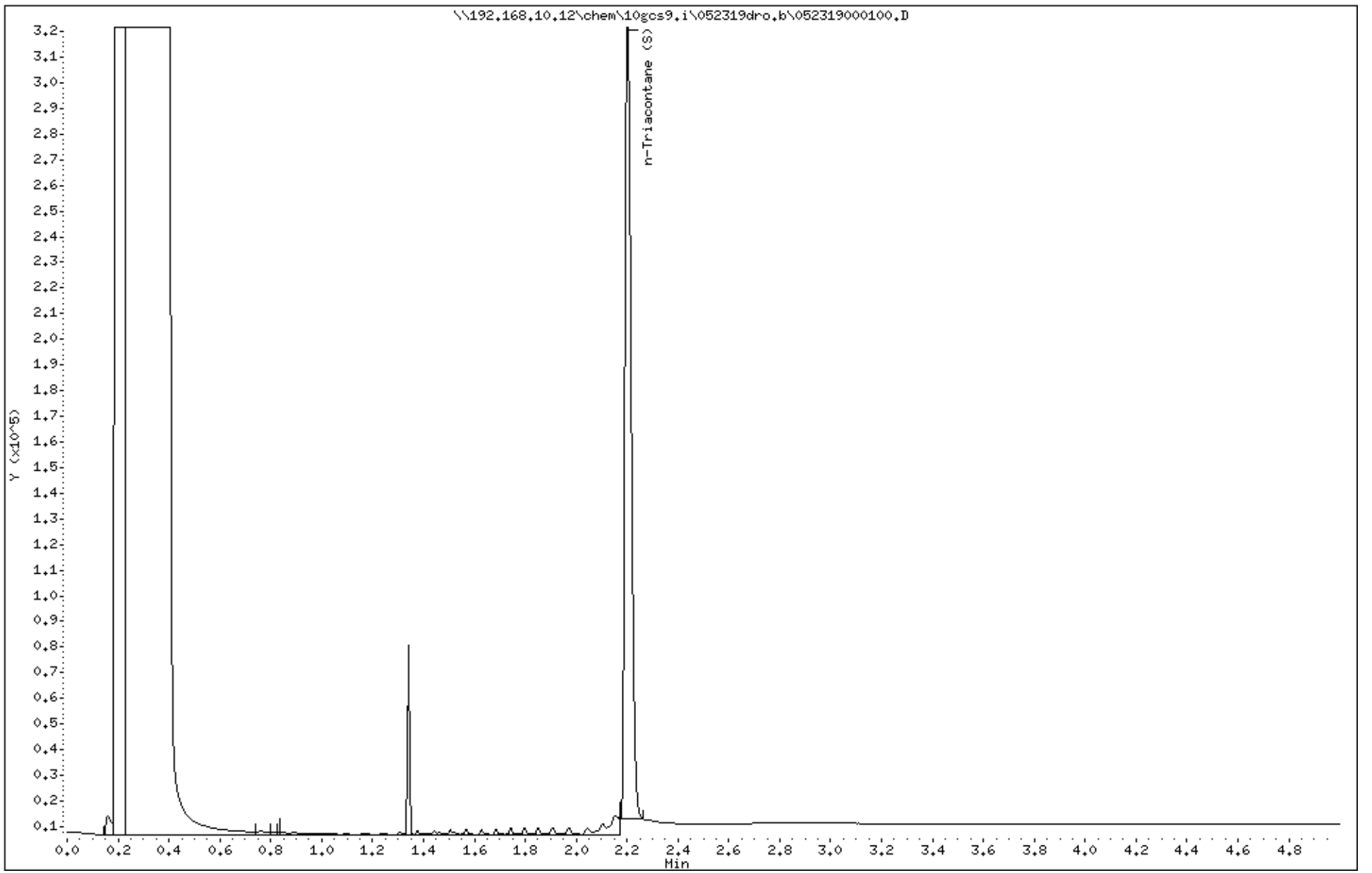
Sample Info: 10475470008

Volume Injected (uL): 1.0

Operator: JVM

Column phase: DB-5-US18180013

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10gcs9.i\052419dro.b\052419000026.D

Date : 24-MAY-2019 11:35

Client ID: SP-1

Instrument: 10gcs9.i

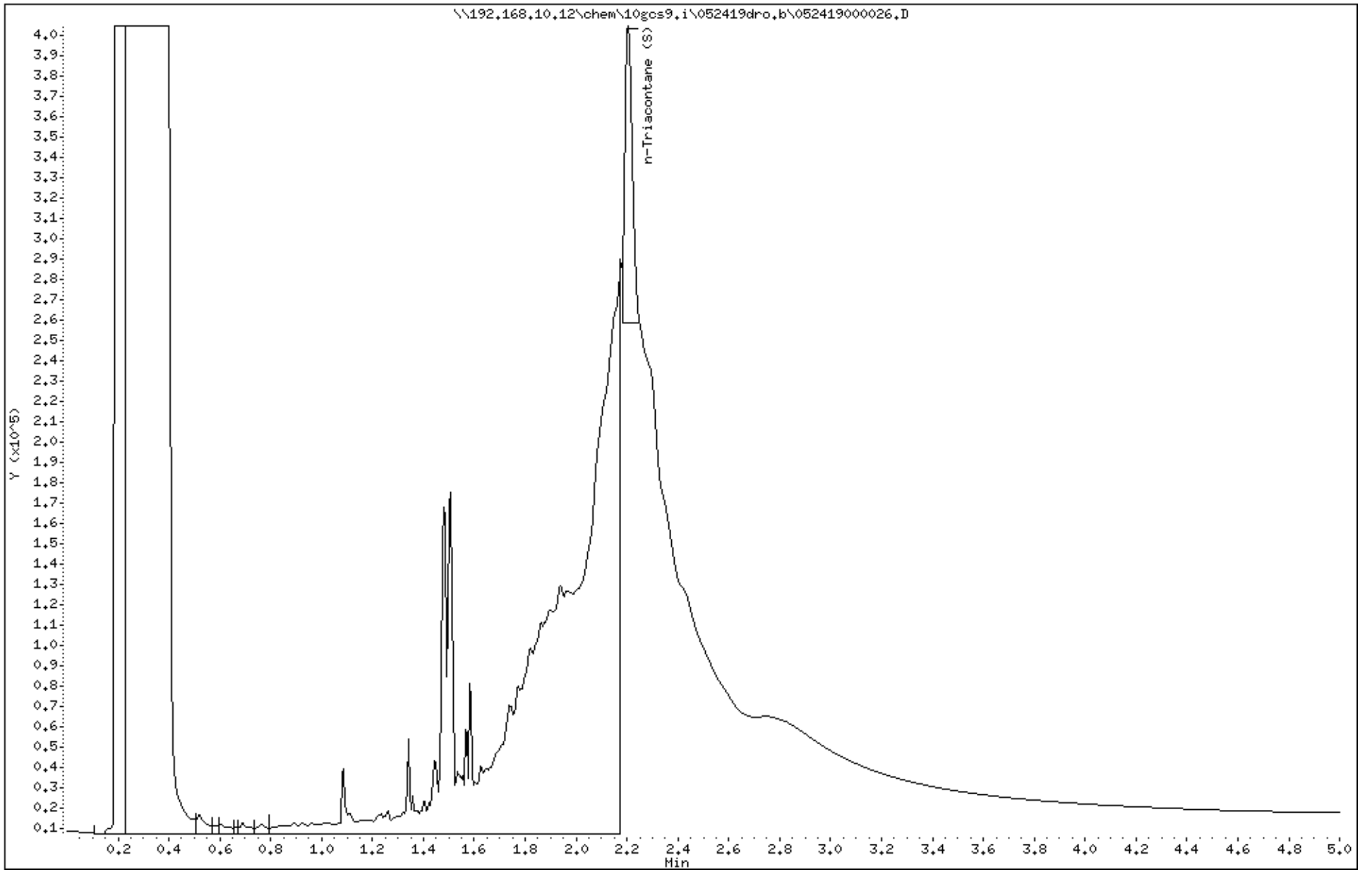
Sample Info: 10475470016X2

Volume Injected (uL): 1.0

Operator: JVM

Column phase: DB-5-US18180013

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10gcs9.i\052419dro.b\052419000027.D

Date : 24-MAY-2019 11:41

Client ID: SP-2

Instrument: 10gcs9.i

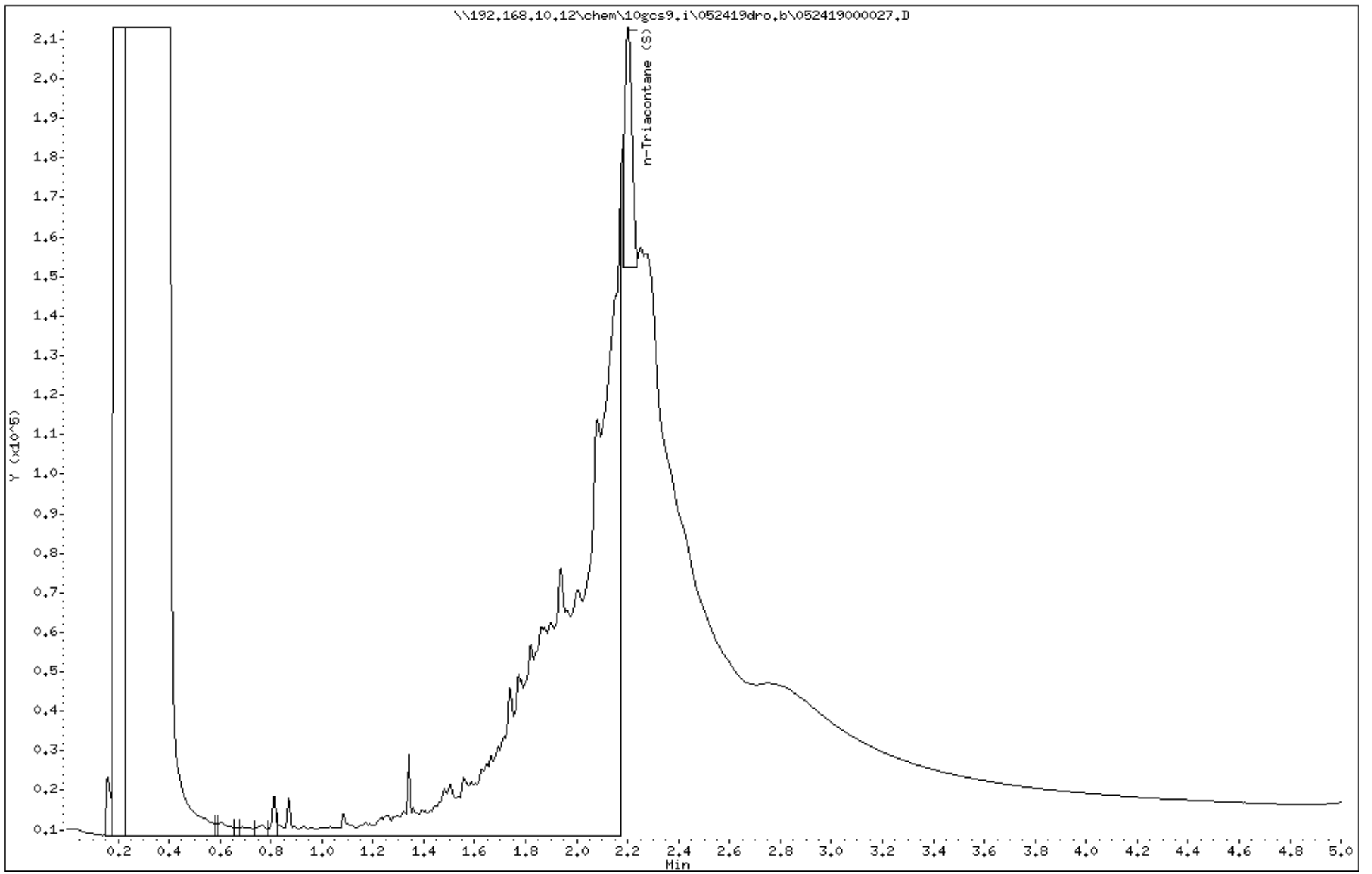
Sample Info: 10475470017X5

Volume Injected (uL): 1.0

Operator: JVM

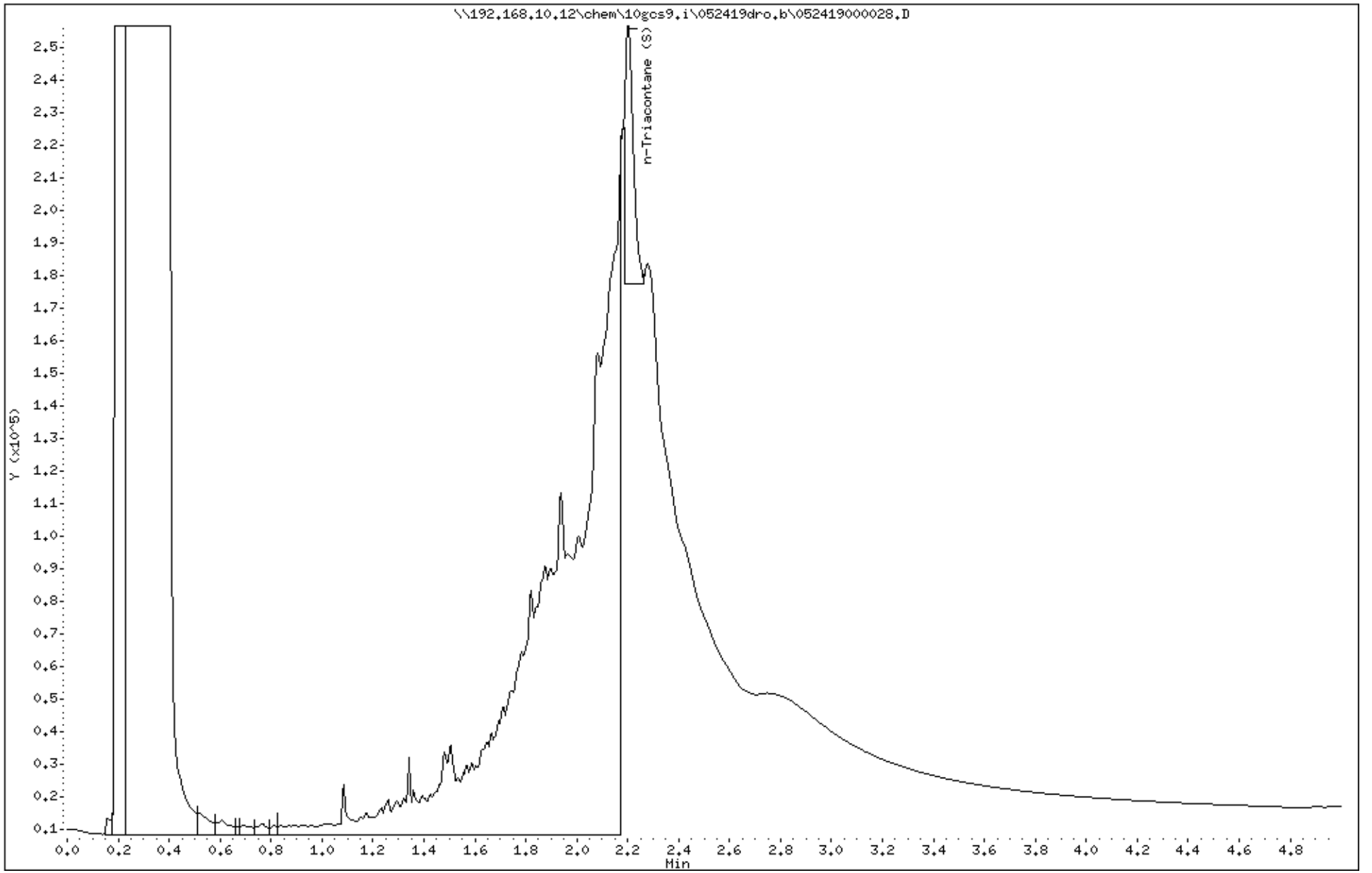
Column phase: DB-5-US18180013

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10gcs9.i\052419dro.b\052419000028.D
Date : 24-MAY-2019 11:48
Client ID: SP-3
Sample Info: 10475470018X2
Volume Injected (uL): 1.0
Column phase: DB-5-US18180013

Instrument: 10gcs9.i
Operator: JVM
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10gcs9.i\052319dro.b\052319000097.D

Date : 23-MAY-2019 22:54

Client ID: SP-4

Instrument: 10gcs9.i

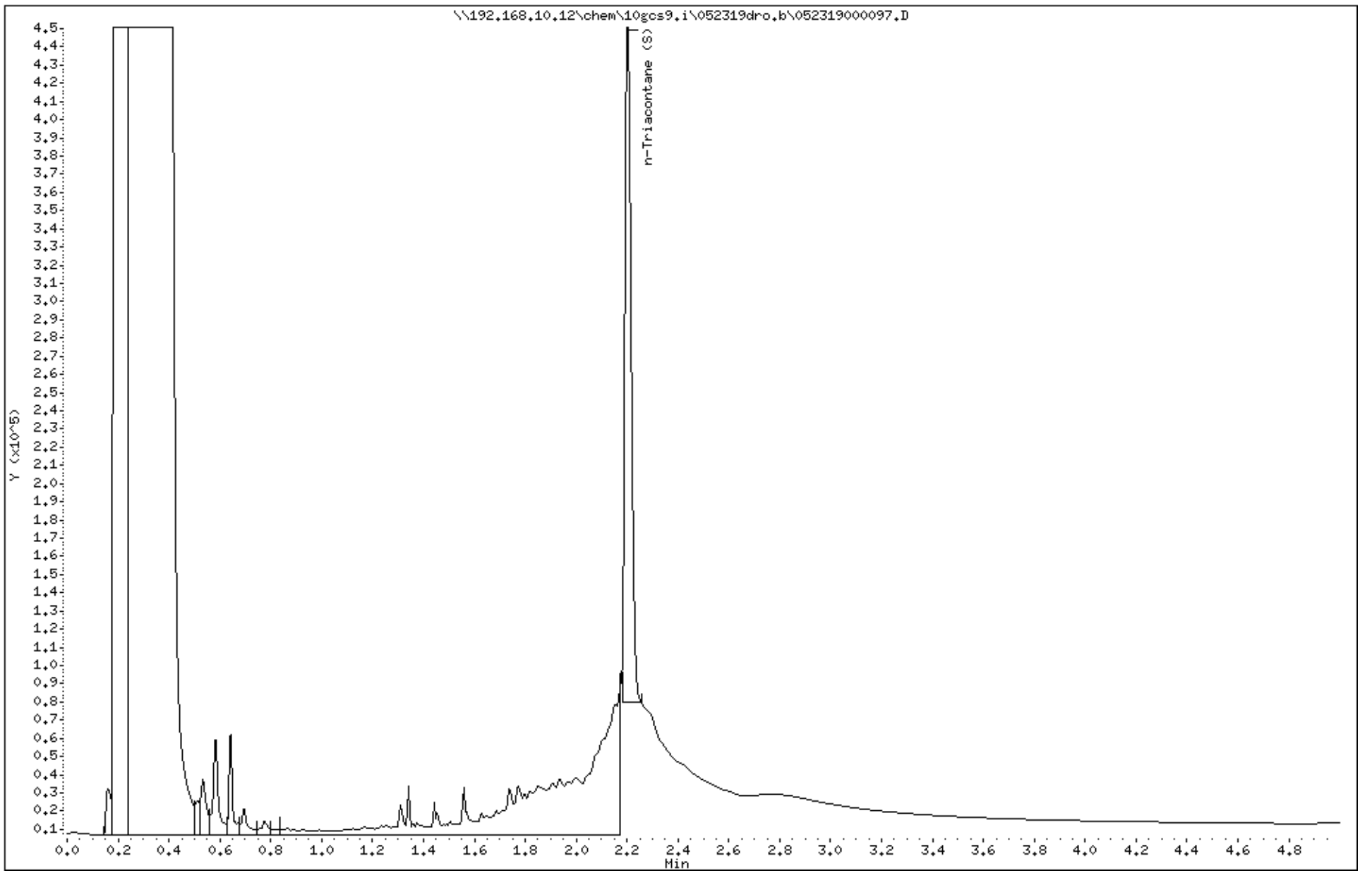
Sample Info: 10475470019

Volume Injected (uL): 1.0

Operator: JVM

Column phase: DB-5-US18180013

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10gcs9.i\052319dro.b\052319000104.D

Date : 23-MAY-2019 23:41

Client ID: SP-5

Instrument: 10gcs9.i

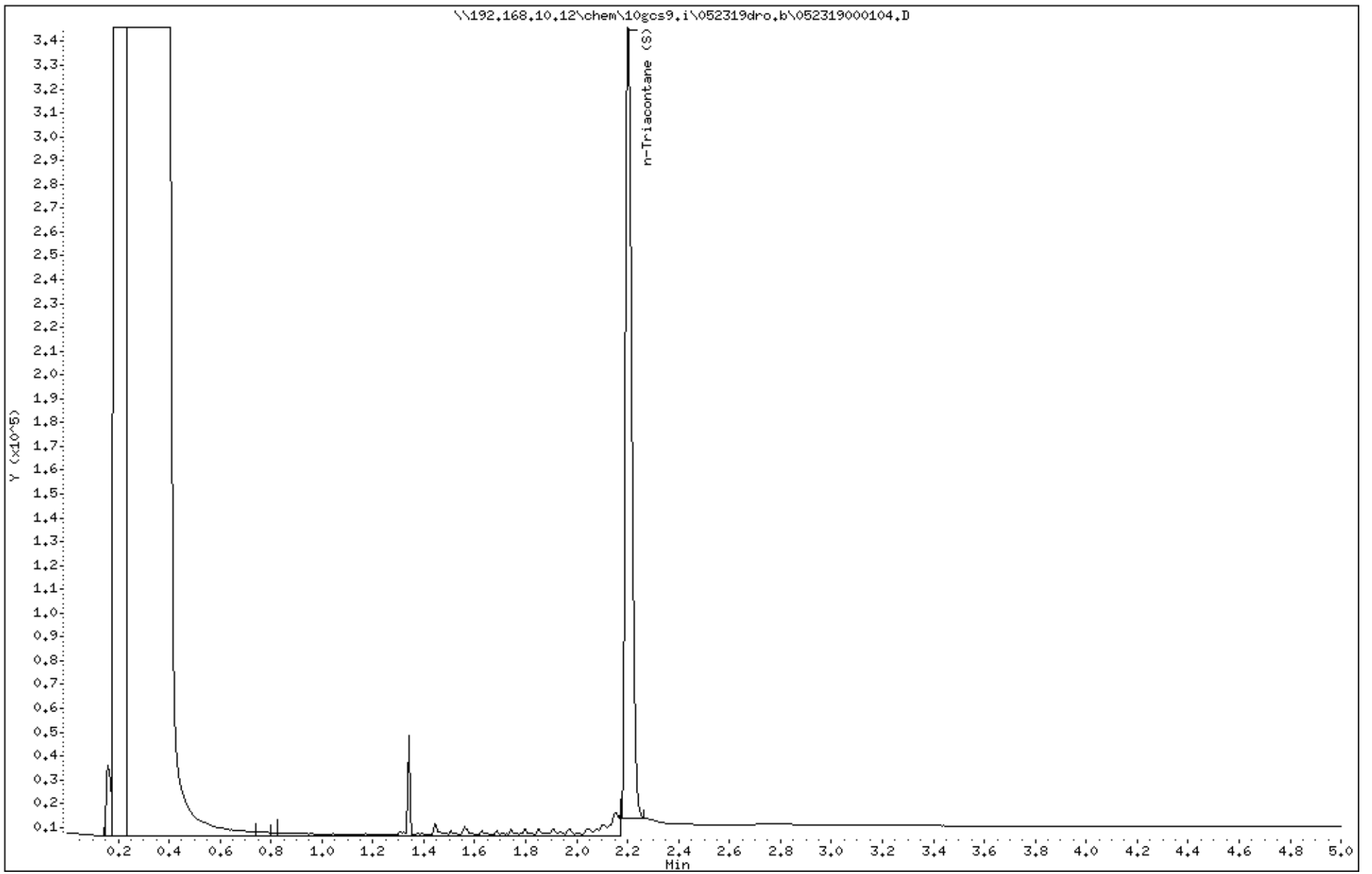
Sample Info: 10475470020

Volume Injected (uL): 1.0

Operator: JVM

Column phase: DB-5-US18180013

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10gcs9.i\052319dro.b\052319000098.D

Date : 23-MAY-2019 23:01

Client ID: SP-6

Instrument: 10gcs9.i

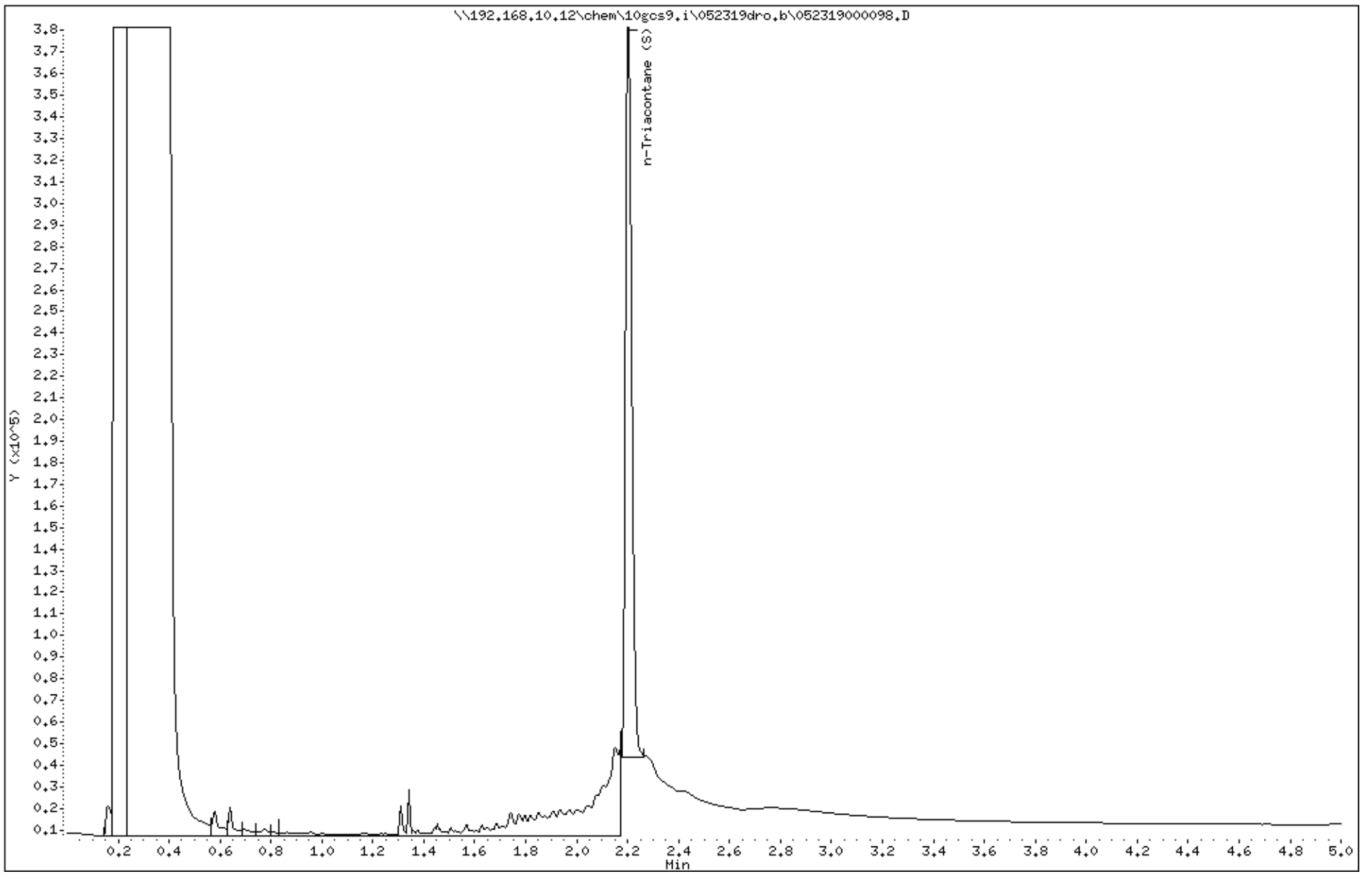
Sample Info: 10475470021

Volume Injected (uL): 1.0

Operator: JVM

Column phase: DB-5-US18180013

Column diameter: 0.32



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

May 28, 2019

Danny Margarit
Carlson McCain
3890 Pheasant Ridge Drive NE
Minneapolis, MN 55449

RE: Project: Pine City Airport Air
Pace Project No.: 10475498

Dear Danny Margarit:
Enclosed are the analytical results for sample(s) received by the laboratory on May 17, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Soltani
tina.soltani@pacelabs.com
(612)607-6384
Project Manager

Enclosures

cc: John Lichter, Carlson McCain

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CERTIFICATIONS

Project: Pine City Airport Air
Pace Project No.: 10475498

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

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SAMPLE SUMMARY

Project: Pine City Airport Air
Pace Project No.: 10475498

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10475498001	**VP-1**	Air	05/17/19 09:50	05/17/19 18:20
10475498002	**VP-2**	Air	05/17/19 10:24	05/17/19 18:20
10475498003	**VP-3**	Air	05/17/19 12:15	05/17/19 18:20
10475498004	**VP-4**	Air	05/17/19 12:55	05/17/19 18:20

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SAMPLE ANALYTE COUNT

Project: Pine City Airport Air
Pace Project No.: 10475498

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10475498001	**VP-1**	TO-15	AFV	61	PASI-M
10475498002	**VP-2**	TO-15	AFV	61	PASI-M
10475498003	**VP-3**	TO-15	AFV	61	PASI-M
10475498004	**VP-4**	TO-15	AFV	61	PASI-M

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ANALYTICAL RESULTS

Project: Pine City Airport Air
Pace Project No.: 10475498

Sample: VP-1 **Lab ID: 10475498001** Collected: 05/17/19 09:50 Received: 05/17/19 18:20 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**23.7**	ug/m3	4.2	1.74		05/22/19 23:58	67-64-1	
Benzene	**1.4**	ug/m3	0.57	1.74		05/22/19 23:58	71-43-2	
Benzyl chloride	ND	ug/m3	4.6	1.74		05/22/19 23:58	100-44-7	
Bromodichloromethane	ND	ug/m3	2.4	1.74		05/22/19 23:58	75-27-4	
Bromoform	ND	ug/m3	9.1	1.74		05/22/19 23:58	75-25-2	
Bromomethane	ND	ug/m3	1.4	1.74		05/22/19 23:58	74-83-9	
1,3-Butadiene	ND	ug/m3	0.78	1.74		05/22/19 23:58	106-99-0	
2-Butanone (MEK)	ND	ug/m3	5.2	1.74		05/22/19 23:58	78-93-3	
Carbon disulfide	ND	ug/m3	1.1	1.74		05/22/19 23:58	75-15-0	
Carbon tetrachloride	ND	ug/m3	2.2	1.74		05/22/19 23:58	56-23-5	
Chlorobenzene	ND	ug/m3	1.6	1.74		05/22/19 23:58	108-90-7	
Chloroethane	ND	ug/m3	0.93	1.74		05/22/19 23:58	75-00-3	
Chloroform	ND	ug/m3	0.86	1.74		05/22/19 23:58	67-66-3	
Chloromethane	**1.4**	ug/m3	0.73	1.74		05/22/19 23:58	74-87-3	
Cyclohexane	ND	ug/m3	3.0	1.74		05/22/19 23:58	110-82-7	
Dibromochloromethane	ND	ug/m3	3.0	1.74		05/22/19 23:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.4	1.74		05/22/19 23:58	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	2.1	1.74		05/22/19 23:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	2.1	1.74		05/22/19 23:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	5.3	1.74		05/22/19 23:58	106-46-7	
Dichlorodifluoromethane	**2.8**	ug/m3	1.8	1.74		05/22/19 23:58	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.4	1.74		05/22/19 23:58	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.72	1.74		05/22/19 23:58	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.4	1.74		05/22/19 23:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.74		05/22/19 23:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.4	1.74		05/22/19 23:58	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.6	1.74		05/22/19 23:58	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.6	1.74		05/22/19 23:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.6	1.74		05/22/19 23:58	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.5	1.74		05/22/19 23:58	76-14-2	
Ethanol	**4.9**	ug/m3	3.3	1.74		05/22/19 23:58	64-17-5	
Ethyl acetate	ND	ug/m3	1.3	1.74		05/22/19 23:58	141-78-6	
Ethylbenzene	**2.1**	ug/m3	1.5	1.74		05/22/19 23:58	100-41-4	
4-Ethyltoluene	ND	ug/m3	4.4	1.74		05/22/19 23:58	622-96-8	
n-Heptane	ND	ug/m3	1.4	1.74		05/22/19 23:58	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	9.4	1.74		05/22/19 23:58	87-68-3	
n-Hexane	**1.5**	ug/m3	1.2	1.74		05/22/19 23:58	110-54-3	
2-Hexanone	ND	ug/m3	7.2	1.74		05/22/19 23:58	591-78-6	
Methylene Chloride	**15.0**	ug/m3	6.1	1.74		05/22/19 23:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	7.2	1.74		05/22/19 23:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	6.4	1.74		05/22/19 23:58	1634-04-4	
Naphthalene	ND	ug/m3	4.6	1.74		05/22/19 23:58	91-20-3	
2-Propanol	ND	ug/m3	4.4	1.74		05/22/19 23:58	67-63-0	
Propylene	**21.3**	ug/m3	0.61	1.74		05/22/19 23:58	115-07-1	
Styrene	ND	ug/m3	1.5	1.74		05/22/19 23:58	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.2	1.74		05/22/19 23:58	79-34-5	
Tetrachloroethene	ND	ug/m3	1.2	1.74		05/22/19 23:58	127-18-4	

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ANALYTICAL RESULTS

Project: Pine City Airport Air
Pace Project No.: 10475498

Sample: VP-1 **Lab ID: 10475498001** Collected: 05/17/19 09:50 Received: 05/17/19 18:20 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Tetrahydrofuran	**10.3**	ug/m3	1.0	1.74		05/22/19 23:58	109-99-9	
Toluene	**3.5**	ug/m3	1.3	1.74		05/22/19 23:58	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	13.1	1.74		05/22/19 23:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.9	1.74		05/22/19 23:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.97	1.74		05/22/19 23:58	79-00-5	
Trichloroethene	ND	ug/m3	0.95	1.74		05/22/19 23:58	79-01-6	
Trichlorofluoromethane	ND	ug/m3	2.0	1.74		05/22/19 23:58	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.7	1.74		05/22/19 23:58	76-13-1	
1,2,4-Trimethylbenzene	**2.9**	ug/m3	1.7	1.74		05/22/19 23:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.7	1.74		05/22/19 23:58	108-67-8	
Vinyl acetate	ND	ug/m3	1.2	1.74		05/22/19 23:58	108-05-4	
Vinyl chloride	ND	ug/m3	0.45	1.74		05/22/19 23:58	75-01-4	
m&p-Xylene	**6.4**	ug/m3	3.1	1.74		05/22/19 23:58	179601-23-1	
o-Xylene	**2.2**	ug/m3	1.5	1.74		05/22/19 23:58	95-47-6	

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ANALYTICAL RESULTS

Project: Pine City Airport Air
Pace Project No.: 10475498

Sample: VP-2 **Lab ID: 10475498002** Collected: 05/17/19 10:24 Received: 05/17/19 18:20 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**64.7**	ug/m3	20.4	8.48		05/23/19 00:27	67-64-1	
Benzene	**3.5**	ug/m3	2.8	8.48		05/23/19 00:27	71-43-2	
Benzyl chloride	ND	ug/m3	22.3	8.48		05/23/19 00:27	100-44-7	
Bromodichloromethane	ND	ug/m3	11.5	8.48		05/23/19 00:27	75-27-4	
Bromoform	ND	ug/m3	44.5	8.48		05/23/19 00:27	75-25-2	
Bromomethane	ND	ug/m3	6.7	8.48		05/23/19 00:27	74-83-9	
1,3-Butadiene	ND	ug/m3	3.8	8.48		05/23/19 00:27	106-99-0	
2-Butanone (MEK)	ND	ug/m3	25.4	8.48		05/23/19 00:27	78-93-3	
Carbon disulfide	ND	ug/m3	5.4	8.48		05/23/19 00:27	75-15-0	
Carbon tetrachloride	ND	ug/m3	10.9	8.48		05/23/19 00:27	56-23-5	
Chlorobenzene	ND	ug/m3	7.9	8.48		05/23/19 00:27	108-90-7	
Chloroethane	ND	ug/m3	4.5	8.48		05/23/19 00:27	75-00-3	
Chloroform	ND	ug/m3	4.2	8.48		05/23/19 00:27	67-66-3	
Chloromethane	ND	ug/m3	3.6	8.48		05/23/19 00:27	74-87-3	
Cyclohexane	ND	ug/m3	14.8	8.48		05/23/19 00:27	110-82-7	
Dibromochloromethane	ND	ug/m3	14.7	8.48		05/23/19 00:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	6.6	8.48		05/23/19 00:27	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	10.3	8.48		05/23/19 00:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	10.3	8.48		05/23/19 00:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	25.9	8.48		05/23/19 00:27	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	8.6	8.48		05/23/19 00:27	75-71-8	
1,1-Dichloroethane	ND	ug/m3	7.0	8.48		05/23/19 00:27	75-34-3	
1,2-Dichloroethane	ND	ug/m3	3.5	8.48		05/23/19 00:27	107-06-2	
1,1-Dichloroethene	ND	ug/m3	6.8	8.48		05/23/19 00:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	6.8	8.48		05/23/19 00:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	6.8	8.48		05/23/19 00:27	156-60-5	
1,2-Dichloropropane	ND	ug/m3	8.0	8.48		05/23/19 00:27	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	7.8	8.48		05/23/19 00:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	7.8	8.48		05/23/19 00:27	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	12.0	8.48		05/23/19 00:27	76-14-2	
Ethanol	**271**	ug/m3	16.3	8.48		05/23/19 00:27	64-17-5	
Ethyl acetate	ND	ug/m3	6.2	8.48		05/23/19 00:27	141-78-6	
Ethylbenzene	ND	ug/m3	7.5	8.48		05/23/19 00:27	100-41-4	
4-Ethyltoluene	ND	ug/m3	21.2	8.48		05/23/19 00:27	622-96-8	
n-Heptane	ND	ug/m3	7.1	8.48		05/23/19 00:27	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	46.0	8.48		05/23/19 00:27	87-68-3	
n-Hexane	**15.0**	ug/m3	6.1	8.48		05/23/19 00:27	110-54-3	
2-Hexanone	ND	ug/m3	35.3	8.48		05/23/19 00:27	591-78-6	
Methylene Chloride	**205**	ug/m3	29.9	8.48		05/23/19 00:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	35.3	8.48		05/23/19 00:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	31.0	8.48		05/23/19 00:27	1634-04-4	
Naphthalene	ND	ug/m3	22.6	8.48		05/23/19 00:27	91-20-3	
2-Propanol	ND	ug/m3	21.2	8.48		05/23/19 00:27	67-63-0	
Propylene	**68.7**	ug/m3	3.0	8.48		05/23/19 00:27	115-07-1	
Styrene	ND	ug/m3	7.3	8.48		05/23/19 00:27	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.9	8.48		05/23/19 00:27	79-34-5	
Tetrachloroethene	**349**	ug/m3	5.8	8.48		05/23/19 00:27	127-18-4	

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ANALYTICAL RESULTS

Project: Pine City Airport Air
Pace Project No.: 10475498

Sample: VP-2 **Lab ID: 10475498002** Collected: 05/17/19 10:24 Received: 05/17/19 18:20 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Tetrahydrofuran	**21.4**	ug/m3	5.1	8.48		05/23/19 00:27	109-99-9	
Toluene	**11.4**	ug/m3	6.5	8.48		05/23/19 00:27	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	63.9	8.48		05/23/19 00:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	9.4	8.48		05/23/19 00:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	4.7	8.48		05/23/19 00:27	79-00-5	
Trichloroethene	ND	ug/m3	4.6	8.48		05/23/19 00:27	79-01-6	
Trichlorofluoromethane	ND	ug/m3	9.7	8.48		05/23/19 00:27	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	13.2	8.48		05/23/19 00:27	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	8.5	8.48		05/23/19 00:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	8.5	8.48		05/23/19 00:27	108-67-8	
Vinyl acetate	ND	ug/m3	6.1	8.48		05/23/19 00:27	108-05-4	
Vinyl chloride	ND	ug/m3	2.2	8.48		05/23/19 00:27	75-01-4	
m&p-Xylene	ND	ug/m3	15.0	8.48		05/23/19 00:27	179601-23-1	
o-Xylene	ND	ug/m3	7.5	8.48		05/23/19 00:27	95-47-6	

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ANALYTICAL RESULTS

Project: Pine City Airport Air
Pace Project No.: 10475498

Sample: VP-3 **Lab ID: 10475498003** Collected: 05/17/19 12:15 Received: 05/17/19 18:20 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**15.7**	ug/m3	4.4	1.83		05/23/19 00:56	67-64-1	
Benzene	**2.0**	ug/m3	0.59	1.83		05/23/19 00:56	71-43-2	
Benzyl chloride	ND	ug/m3	4.8	1.83		05/23/19 00:56	100-44-7	
Bromodichloromethane	ND	ug/m3	2.5	1.83		05/23/19 00:56	75-27-4	
Bromoform	ND	ug/m3	9.6	1.83		05/23/19 00:56	75-25-2	
Bromomethane	ND	ug/m3	1.4	1.83		05/23/19 00:56	74-83-9	
1,3-Butadiene	ND	ug/m3	0.82	1.83		05/23/19 00:56	106-99-0	
2-Butanone (MEK)	ND	ug/m3	5.5	1.83		05/23/19 00:56	78-93-3	
Carbon disulfide	ND	ug/m3	1.2	1.83		05/23/19 00:56	75-15-0	
Carbon tetrachloride	ND	ug/m3	2.3	1.83		05/23/19 00:56	56-23-5	
Chlorobenzene	ND	ug/m3	1.7	1.83		05/23/19 00:56	108-90-7	
Chloroethane	ND	ug/m3	0.98	1.83		05/23/19 00:56	75-00-3	
Chloroform	ND	ug/m3	0.91	1.83		05/23/19 00:56	67-66-3	
Chloromethane	**1.4**	ug/m3	0.77	1.83		05/23/19 00:56	74-87-3	
Cyclohexane	ND	ug/m3	3.2	1.83		05/23/19 00:56	110-82-7	
Dibromochloromethane	ND	ug/m3	3.2	1.83		05/23/19 00:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.4	1.83		05/23/19 00:56	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	2.2	1.83		05/23/19 00:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	2.2	1.83		05/23/19 00:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	5.6	1.83		05/23/19 00:56	106-46-7	
Dichlorodifluoromethane	**2.6**	ug/m3	1.8	1.83		05/23/19 00:56	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.5	1.83		05/23/19 00:56	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.75	1.83		05/23/19 00:56	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.5	1.83		05/23/19 00:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.5	1.83		05/23/19 00:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.5	1.83		05/23/19 00:56	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.7	1.83		05/23/19 00:56	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.7	1.83		05/23/19 00:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.7	1.83		05/23/19 00:56	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.6	1.83		05/23/19 00:56	76-14-2	
Ethanol	**5.7**	ug/m3	3.5	1.83		05/23/19 00:56	64-17-5	
Ethyl acetate	ND	ug/m3	1.3	1.83		05/23/19 00:56	141-78-6	
Ethylbenzene	ND	ug/m3	1.6	1.83		05/23/19 00:56	100-41-4	
4-Ethyltoluene	ND	ug/m3	4.6	1.83		05/23/19 00:56	622-96-8	
n-Heptane	ND	ug/m3	1.5	1.83		05/23/19 00:56	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	9.9	1.83		05/23/19 00:56	87-68-3	
n-Hexane	**3.2**	ug/m3	1.3	1.83		05/23/19 00:56	110-54-3	
2-Hexanone	ND	ug/m3	7.6	1.83		05/23/19 00:56	591-78-6	
Methylene Chloride	**19.0**	ug/m3	6.5	1.83		05/23/19 00:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	7.6	1.83		05/23/19 00:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	6.7	1.83		05/23/19 00:56	1634-04-4	
Naphthalene	ND	ug/m3	4.9	1.83		05/23/19 00:56	91-20-3	
2-Propanol	ND	ug/m3	4.6	1.83		05/23/19 00:56	67-63-0	
Propylene	**121**	ug/m3	0.64	1.83		05/23/19 00:56	115-07-1	E
Styrene	ND	ug/m3	1.6	1.83		05/23/19 00:56	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.3	1.83		05/23/19 00:56	79-34-5	
Tetrachloroethene	**58.3**	ug/m3	1.3	1.83		05/23/19 00:56	127-18-4	

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ANALYTICAL RESULTS

Project: Pine City Airport Air
Pace Project No.: 10475498

Sample: VP-3 **Lab ID: 10475498003** Collected: 05/17/19 12:15 Received: 05/17/19 18:20 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Tetrahydrofuran	**11.7**	ug/m3	1.1	1.83		05/23/19 00:56	109-99-9	
Toluene	**5.0**	ug/m3	1.4	1.83		05/23/19 00:56	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	13.8	1.83		05/23/19 00:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	2.0	1.83		05/23/19 00:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.0	1.83		05/23/19 00:56	79-00-5	
Trichloroethene	**2.4**	ug/m3	1.0	1.83		05/23/19 00:56	79-01-6	
Trichlorofluoromethane	ND	ug/m3	2.1	1.83		05/23/19 00:56	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.9	1.83		05/23/19 00:56	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.8	1.83		05/23/19 00:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.8	1.83		05/23/19 00:56	108-67-8	
Vinyl acetate	ND	ug/m3	1.3	1.83		05/23/19 00:56	108-05-4	
Vinyl chloride	ND	ug/m3	0.48	1.83		05/23/19 00:56	75-01-4	
m&p-Xylene	ND	ug/m3	3.2	1.83		05/23/19 00:56	179601-23-1	
o-Xylene	ND	ug/m3	1.6	1.83		05/23/19 00:56	95-47-6	

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ANALYTICAL RESULTS

Project: Pine City Airport Air
Pace Project No.: 10475498

Sample: VP-4 **Lab ID: 10475498004** Collected: 05/17/19 12:55 Received: 05/17/19 18:20 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**14.0**	ug/m3	4.3	1.77		05/23/19 01:25	67-64-1	
Benzene	**0.71**	ug/m3	0.58	1.77		05/23/19 01:25	71-43-2	
Benzyl chloride	ND	ug/m3	4.7	1.77		05/23/19 01:25	100-44-7	
Bromodichloromethane	ND	ug/m3	2.4	1.77		05/23/19 01:25	75-27-4	
Bromoform	ND	ug/m3	9.3	1.77		05/23/19 01:25	75-25-2	
Bromomethane	ND	ug/m3	1.4	1.77		05/23/19 01:25	74-83-9	
1,3-Butadiene	ND	ug/m3	0.80	1.77		05/23/19 01:25	106-99-0	
2-Butanone (MEK)	ND	ug/m3	5.3	1.77		05/23/19 01:25	78-93-3	
Carbon disulfide	ND	ug/m3	1.1	1.77		05/23/19 01:25	75-15-0	
Carbon tetrachloride	ND	ug/m3	2.3	1.77		05/23/19 01:25	56-23-5	
Chlorobenzene	ND	ug/m3	1.7	1.77		05/23/19 01:25	108-90-7	
Chloroethane	ND	ug/m3	0.95	1.77		05/23/19 01:25	75-00-3	
Chloroform	ND	ug/m3	0.88	1.77		05/23/19 01:25	67-66-3	
Chloromethane	**1.1**	ug/m3	0.74	1.77		05/23/19 01:25	74-87-3	
Cyclohexane	ND	ug/m3	3.1	1.77		05/23/19 01:25	110-82-7	
Dibromochloromethane	ND	ug/m3	3.1	1.77		05/23/19 01:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.4	1.77		05/23/19 01:25	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	2.2	1.77		05/23/19 01:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	2.2	1.77		05/23/19 01:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	5.4	1.77		05/23/19 01:25	106-46-7	
Dichlorodifluoromethane	**3.0**	ug/m3	1.8	1.77		05/23/19 01:25	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.5	1.77		05/23/19 01:25	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.73	1.77		05/23/19 01:25	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.4	1.77		05/23/19 01:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.77		05/23/19 01:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.4	1.77		05/23/19 01:25	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.7	1.77		05/23/19 01:25	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.6	1.77		05/23/19 01:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.6	1.77		05/23/19 01:25	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.5	1.77		05/23/19 01:25	76-14-2	
Ethanol	**5.6**	ug/m3	3.4	1.77		05/23/19 01:25	64-17-5	
Ethyl acetate	ND	ug/m3	1.3	1.77		05/23/19 01:25	141-78-6	
Ethylbenzene	ND	ug/m3	1.6	1.77		05/23/19 01:25	100-41-4	
4-Ethyltoluene	ND	ug/m3	4.4	1.77		05/23/19 01:25	622-96-8	
n-Heptane	ND	ug/m3	1.5	1.77		05/23/19 01:25	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	9.6	1.77		05/23/19 01:25	87-68-3	
n-Hexane	**1.3**	ug/m3	1.3	1.77		05/23/19 01:25	110-54-3	
2-Hexanone	ND	ug/m3	7.4	1.77		05/23/19 01:25	591-78-6	
Methylene Chloride	**15.2**	ug/m3	6.2	1.77		05/23/19 01:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	7.4	1.77		05/23/19 01:25	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	6.5	1.77		05/23/19 01:25	1634-04-4	
Naphthalene	ND	ug/m3	4.7	1.77		05/23/19 01:25	91-20-3	
2-Propanol	ND	ug/m3	4.4	1.77		05/23/19 01:25	67-63-0	
Propylene	**15.2**	ug/m3	0.62	1.77		05/23/19 01:25	115-07-1	
Styrene	ND	ug/m3	1.5	1.77		05/23/19 01:25	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.2	1.77		05/23/19 01:25	79-34-5	
Tetrachloroethene	ND	ug/m3	1.2	1.77		05/23/19 01:25	127-18-4	

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ANALYTICAL RESULTS

Project: Pine City Airport Air
Pace Project No.: 10475498

Sample: VP-4 **Lab ID: 10475498004** Collected: 05/17/19 12:55 Received: 05/17/19 18:20 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Tetrahydrofuran	**10.7**	ug/m3	1.1	1.77		05/23/19 01:25	109-99-9	
Toluene	**3.1**	ug/m3	1.4	1.77		05/23/19 01:25	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	13.3	1.77		05/23/19 01:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	2.0	1.77		05/23/19 01:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.98	1.77		05/23/19 01:25	79-00-5	
Trichloroethene	ND	ug/m3	0.97	1.77		05/23/19 01:25	79-01-6	
Trichlorofluoromethane	ND	ug/m3	2.0	1.77		05/23/19 01:25	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.8	1.77		05/23/19 01:25	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.8	1.77		05/23/19 01:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.8	1.77		05/23/19 01:25	108-67-8	
Vinyl acetate	ND	ug/m3	1.3	1.77		05/23/19 01:25	108-05-4	
Vinyl chloride	ND	ug/m3	0.46	1.77		05/23/19 01:25	75-01-4	
m&p-Xylene	ND	ug/m3	3.1	1.77		05/23/19 01:25	179601-23-1	
o-Xylene	ND	ug/m3	1.6	1.77		05/23/19 01:25	95-47-6	

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QUALITY CONTROL DATA

Project: Pine City Airport Air
Pace Project No.: 10475498

QC Batch: 607612 | Analysis Method: TO-15
QC Batch Method: TO-15 | Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10475498001, 10475498002, 10475498003, 10475498004

METHOD BLANK: 3284618 | Matrix: Air
Associated Lab Samples: 10475498001, 10475498002, 10475498003, 10475498004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	05/22/19 10:44	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	05/22/19 10:44	
1,1,2-Trichloroethane	ug/m3	ND	0.56	05/22/19 10:44	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	05/22/19 10:44	
1,1-Dichloroethane	ug/m3	ND	0.82	05/22/19 10:44	
1,1-Dichloroethene	ug/m3	ND	0.81	05/22/19 10:44	
1,2,4-Trichlorobenzene	ug/m3	ND	7.5	05/22/19 10:44	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	05/22/19 10:44	
1,2-Dibromoethane (EDB)	ug/m3	ND	0.78	05/22/19 10:44	
1,2-Dichlorobenzene	ug/m3	ND	1.2	05/22/19 10:44	
1,2-Dichloroethane	ug/m3	ND	0.41	05/22/19 10:44	
1,2-Dichloropropane	ug/m3	ND	0.94	05/22/19 10:44	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	05/22/19 10:44	
1,3-Butadiene	ug/m3	ND	0.45	05/22/19 10:44	
1,3-Dichlorobenzene	ug/m3	ND	1.2	05/22/19 10:44	
1,4-Dichlorobenzene	ug/m3	ND	3.1	05/22/19 10:44	
2-Butanone (MEK)	ug/m3	ND	3.0	05/22/19 10:44	
2-Hexanone	ug/m3	ND	4.2	05/22/19 10:44	
2-Propanol	ug/m3	ND	2.5	05/22/19 10:44	
4-Ethyltoluene	ug/m3	ND	2.5	05/22/19 10:44	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	4.2	05/22/19 10:44	
Acetone	ug/m3	ND	2.4	05/22/19 10:44	
Benzene	ug/m3	ND	0.32	05/22/19 10:44	
Benzyl chloride	ug/m3	ND	2.6	05/22/19 10:44	
Bromodichloromethane	ug/m3	ND	1.4	05/22/19 10:44	
Bromoform	ug/m3	ND	5.2	05/22/19 10:44	
Bromomethane	ug/m3	ND	0.79	05/22/19 10:44	
Carbon disulfide	ug/m3	ND	0.63	05/22/19 10:44	
Carbon tetrachloride	ug/m3	ND	1.3	05/22/19 10:44	
Chlorobenzene	ug/m3	ND	0.94	05/22/19 10:44	
Chloroethane	ug/m3	ND	0.54	05/22/19 10:44	
Chloroform	ug/m3	ND	0.50	05/22/19 10:44	
Chloromethane	ug/m3	ND	0.42	05/22/19 10:44	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	05/22/19 10:44	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	05/22/19 10:44	
Cyclohexane	ug/m3	ND	1.8	05/22/19 10:44	
Dibromochloromethane	ug/m3	ND	1.7	05/22/19 10:44	
Dichlorodifluoromethane	ug/m3	ND	1.0	05/22/19 10:44	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	05/22/19 10:44	
Ethanol	ug/m3	ND	1.9	05/22/19 10:44	
Ethyl acetate	ug/m3	ND	0.73	05/22/19 10:44	

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(612)607-1700

QUALITY CONTROL DATA

Project: Pine City Airport Air
Pace Project No.: 10475498

METHOD BLANK: 3284618 Matrix: Air
Associated Lab Samples: 10475498001, 10475498002, 10475498003, 10475498004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	ND	0.88	05/22/19 10:44	
Hexachloro-1,3-butadiene	ug/m3	ND	5.4	05/22/19 10:44	
m&p-Xylene	ug/m3	ND	1.8	05/22/19 10:44	
Methyl-tert-butyl ether	ug/m3	ND	3.7	05/22/19 10:44	
Methylene Chloride	ug/m3	ND	3.5	05/22/19 10:44	
n-Heptane	ug/m3	ND	0.83	05/22/19 10:44	
n-Hexane	ug/m3	ND	0.72	05/22/19 10:44	
Naphthalene	ug/m3	ND	2.7	05/22/19 10:44	
o-Xylene	ug/m3	ND	0.88	05/22/19 10:44	
Propylene	ug/m3	ND	0.35	05/22/19 10:44	
Styrene	ug/m3	ND	0.87	05/22/19 10:44	
Tetrachloroethene	ug/m3	ND	0.69	05/22/19 10:44	
Tetrahydrofuran	ug/m3	ND	0.60	05/22/19 10:44	
Toluene	ug/m3	ND	0.77	05/22/19 10:44	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	05/22/19 10:44	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	05/22/19 10:44	
Trichloroethene	ug/m3	ND	0.55	05/22/19 10:44	
Trichlorofluoromethane	ug/m3	ND	1.1	05/22/19 10:44	
Vinyl acetate	ug/m3	ND	0.72	05/22/19 10:44	
Vinyl chloride	ug/m3	ND	0.26	05/22/19 10:44	

LABORATORY CONTROL SAMPLE: 3284619

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	59.5	107	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	77.9	112	70-132	
1,1,2-Trichloroethane	ug/m3	55.5	62.1	112	70-130	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	90.2	116	70-130	
1,1-Dichloroethane	ug/m3	41.1	48.1	117	70-130	
1,1-Dichloroethene	ug/m3	40.3	50.0	124	70-130	
1,2,4-Trichlorobenzene	ug/m3	75.4	75.7	100	56-130	
1,2,4-Trimethylbenzene	ug/m3	50	52.5	105	70-134	
1,2-Dibromoethane (EDB)	ug/m3	78.1	83.1	106	70-130	
1,2-Dichlorobenzene	ug/m3	61.1	62.3	102	70-132	
1,2-Dichloroethane	ug/m3	41.1	45.6	111	70-130	
1,2-Dichloropropane	ug/m3	47	54.1	115	70-130	
1,3,5-Trimethylbenzene	ug/m3	50	53.5	107	70-132	
1,3-Butadiene	ug/m3	22.5	24.6	109	65-130	
1,3-Dichlorobenzene	ug/m3	61.1	62.8	103	70-137	
1,4-Dichlorobenzene	ug/m3	61.1	66.1	108	70-134	
2-Butanone (MEK)	ug/m3	30	30.2	101	70-130	
2-Hexanone	ug/m3	41.6	52.5	126	70-135	
2-Propanol	ug/m3	125	139	111	68-130	
4-Ethyltoluene	ug/m3	50	55.0	110	70-138	

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(612)607-1700

QUALITY CONTROL DATA

Project: Pine City Airport Air
Pace Project No.: 10475498

LABORATORY CONTROL SAMPLE: 3284619

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	41.6	52.4	126	70-131	
Acetone	ug/m3	121	124	103	67-130	
Benzene	ug/m3	32.5	35.8	110	70-130	
Benzyl chloride	ug/m3	52.6	58.1	110	70-130	
Bromodichloromethane	ug/m3	68.1	76.6	113	70-130	
Bromoform	ug/m3	105	116	110	70-132	
Bromomethane	ug/m3	39.5	39.7	101	69-130	
Carbon disulfide	ug/m3	31.6	36.0	114	56-137	
Carbon tetrachloride	ug/m3	64	72.3	113	66-131	
Chlorobenzene	ug/m3	46.8	50.8	109	70-130	
Chloroethane	ug/m3	26.8	31.6	118	70-130	
Chloroform	ug/m3	49.6	53.5	108	70-130	
Chloromethane	ug/m3	21	22.6	107	66-130	
cis-1,2-Dichloroethene	ug/m3	40.3	43.6	108	70-130	
cis-1,3-Dichloropropene	ug/m3	46.1	54.1	117	70-133	
Cyclohexane	ug/m3	35	40.3	115	68-132	
Dibromochloromethane	ug/m3	86.6	99.7	115	70-130	
Dichlorodifluoromethane	ug/m3	50.3	54.4	108	70-130	
Dichlorotetrafluoroethane	ug/m3	71	74.9	105	70-130	
Ethanol	ug/m3	95.8	103	107	68-133	
Ethyl acetate	ug/m3	36.6	43.7	119	69-130	
Ethylbenzene	ug/m3	44.1	49.3	112	67-131	
Hexachloro-1,3-butadiene	ug/m3	108	102	94	66-137	
m&p-Xylene	ug/m3	88.3	96.3	109	70-132	
Methyl-tert-butyl ether	ug/m3	36.6	41.7	114	70-130	
Methylene Chloride	ug/m3	177	212	120	65-130	
n-Heptane	ug/m3	41.7	48.1	116	65-130	
n-Hexane	ug/m3	35.8	41.9	117	66-130	
Naphthalene	ug/m3	53.3	53.5	100	56-130	
o-Xylene	ug/m3	44.1	47.9	109	70-130	
Propylene	ug/m3	17.5	20.8	119	67-130	
Styrene	ug/m3	43.3	48.3	112	69-136	
Tetrachloroethene	ug/m3	68.9	73.1	106	70-130	
Tetrahydrofuran	ug/m3	30	37.5	125	68-131	
Toluene	ug/m3	38.3	42.2	110	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	42.6	106	70-130	
trans-1,3-Dichloropropene	ug/m3	46.1	56.6	123	70-134	
Trichloroethene	ug/m3	54.6	60.4	111	70-130	
Trichlorofluoromethane	ug/m3	57.1	60.6	106	65-130	
Vinyl acetate	ug/m3	35.8	42.7	119	61-133	
Vinyl chloride	ug/m3	26	26.5	102	70-130	

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QUALITY CONTROL DATA

Project: Pine City Airport Air
Pace Project No.: 10475498

SAMPLE DUPLICATE: 3286202

Parameter	Units	10475528001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND		25	
1,1,2-Trichloroethane	ug/m3	ND	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
1,2,4-Trichlorobenzene	ug/m3	ND	ND		25	
1,2,4-Trimethylbenzene	ug/m3	24.5	24.0	2	25	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND		25	
1,2-Dichlorobenzene	ug/m3	ND	ND		25	
1,2-Dichloroethane	ug/m3	ND	ND		25	
1,2-Dichloropropane	ug/m3	ND	ND		25	
1,3,5-Trimethylbenzene	ug/m3	11.1	11.4	3	25	
1,3-Butadiene	ug/m3	ND	ND		25	
1,3-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dichlorobenzene	ug/m3	ND	ND		25	
2-Butanone (MEK)	ug/m3	ND	ND		25	
2-Hexanone	ug/m3	ND	ND		25	
2-Propanol	ug/m3	ND	ND		25	
4-Ethyltoluene	ug/m3	6.0	5.6	7	25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	ND		25	
Acetone	ug/m3	8.6	8.5	1	25	
Benzene	ug/m3	1.4	1.6	10	25	
Benzyl chloride	ug/m3	ND	ND		25	
Bromodichloromethane	ug/m3	ND	ND		25	
Bromoform	ug/m3	ND	ND		25	
Bromomethane	ug/m3	ND	ND		25	
Carbon disulfide	ug/m3	ND	ND		25	
Carbon tetrachloride	ug/m3	ND	ND		25	
Chlorobenzene	ug/m3	ND	ND		25	
Chloroethane	ug/m3	ND	ND		25	
Chloroform	ug/m3	ND	ND		25	
Chloromethane	ug/m3	1.2	1.2	0	25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
cis-1,3-Dichloropropene	ug/m3	ND	ND		25	
Cyclohexane	ug/m3	ND	ND		25	
Dibromochloromethane	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	2.5	2.8	8	25	
Dichlorotetrafluoroethane	ug/m3	ND	ND		25	
Ethanol	ug/m3	ND	3.3J		25	
Ethyl acetate	ug/m3	ND	ND		25	
Ethylbenzene	ug/m3	ND	.63J		25	
Hexachloro-1,3-butadiene	ug/m3	ND	ND		25	
m&p-Xylene	ug/m3	24.5	23.8	3	25	
Methyl-tert-butyl ether	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	ND	4J		25	
n-Heptane	ug/m3	ND	1.2J		25	

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QUALITY CONTROL DATA

Project: Pine City Airport Air
Pace Project No.: 10475498

SAMPLE DUPLICATE: 3286202

Parameter	Units	10475528001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	ND	.79J		25	
Naphthalene	ug/m3	ND	4.2J		25	
o-Xylene	ug/m3	20.4	20.1	2	25	
Propylene	ug/m3	0.96	0.94	2	25	
Styrene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	ND	ND		25	
Tetrahydrofuran	ug/m3	ND	ND		25	
Toluene	ug/m3	4.3	4.0	7	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
trans-1,3-Dichloropropene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	ND	ND		25	
Trichlorofluoromethane	ug/m3	ND	ND		25	
Vinyl acetate	ug/m3	ND	ND		25	
Vinyl chloride	ug/m3	ND	ND		25	

SAMPLE DUPLICATE: 3286203

Parameter	Units	10475528002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND		25	
1,1,2-Trichloroethane	ug/m3	ND	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
1,2,4-Trichlorobenzene	ug/m3	ND	ND		25	
1,2,4-Trimethylbenzene	ug/m3	ND	ND		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND		25	
1,2-Dichlorobenzene	ug/m3	ND	ND		25	
1,2-Dichloroethane	ug/m3	ND	ND		25	
1,2-Dichloropropane	ug/m3	ND	ND		25	
1,3,5-Trimethylbenzene	ug/m3	ND	ND		25	
1,3-Butadiene	ug/m3	ND	ND		25	
1,3-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dichlorobenzene	ug/m3	ND	ND		25	
2-Butanone (MEK)	ug/m3	ND	2.2J		25	
2-Hexanone	ug/m3	ND	ND		25	
2-Propanol	ug/m3	ND	ND		25	
4-Ethyltoluene	ug/m3	ND	ND		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	ND		25	
Acetone	ug/m3	17.0	16.5	3	25	
Benzene	ug/m3	1.7	1.6	3	25	
Benzyl chloride	ug/m3	ND	ND		25	
Bromodichloromethane	ug/m3	ND	ND		25	
Bromoform	ug/m3	ND	ND		25	
Bromomethane	ug/m3	ND	ND		25	

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QUALITY CONTROL DATA

Project: Pine City Airport Air
Pace Project No.: 10475498

SAMPLE DUPLICATE: 3286203

Parameter	Units	10475528002 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon disulfide	ug/m3	ND	ND		25	
Carbon tetrachloride	ug/m3	ND	ND		25	
Chlorobenzene	ug/m3	ND	ND		25	
Chloroethane	ug/m3	ND	ND		25	
Chloroform	ug/m3	ND	ND		25	
Chloromethane	ug/m3	1.1	1.2	7	25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
cis-1,3-Dichloropropene	ug/m3	ND	ND		25	
Cyclohexane	ug/m3	ND	ND		25	
Dibromochloromethane	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	2.7	2.7	1	25	
Dichlorotetrafluoroethane	ug/m3	ND	ND		25	
Ethanol	ug/m3	ND	2.8J		25	
Ethyl acetate	ug/m3	ND	ND		25	
Ethylbenzene	ug/m3	ND	ND		25	
Hexachloro-1,3-butadiene	ug/m3	ND	ND		25	
m&p-Xylene	ug/m3	ND	ND		25	
Methyl-tert-butyl ether	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	ND	3.5J		25	
n-Heptane	ug/m3	ND	1J		25	
n-Hexane	ug/m3	ND	ND		25	
Naphthalene	ug/m3	ND	2.7J		25	
o-Xylene	ug/m3	ND	ND		25	
Propylene	ug/m3	0.80	ND		25	
Styrene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	ND	ND		25	
Tetrahydrofuran	ug/m3	ND	ND		25	
Toluene	ug/m3	ND	ND		25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
trans-1,3-Dichloropropene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	ND	ND		25	
Trichlorofluoromethane	ug/m3	ND	ND		25	
Vinyl acetate	ug/m3	ND	ND		25	
Vinyl chloride	ug/m3	ND	ND		25	

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QUALIFIERS

Project: Pine City Airport Air
Pace Project No.: 10475498

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

SAMPLE QUALIFIERS

Sample: 10475498001

[1] The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

Sample: 10475498002

[1] The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

Sample: 10475498003

[1] The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

Sample: 10475498004

[1] The Total Hydrocarbon (THC) pattern is evenly distributed throughout the chromatogram (before and after toluene).

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Pine City Airport Air
Pace Project No.: 10475498

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10475498001	**VP-1**	TO-15	607612		
10475498002	**VP-2**	TO-15	607612		
10475498003	**VP-3**	TO-15	607612		
10475498004	**VP-4**	TO-15	607612		

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AIR: CHAIN-OF-CUSTODY

The Chain-of-Custody is a LEGAL DOCUMENT. All releva

WO# : 10475498

10475498

36085

Page: 1 of 1

Section A Required Client Information:

Company: Carlson McCain Inc
Address: 3880 Pheasant Ridge Dr NE Blaine, MN 55449
Email To: Danny Margarit
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Danny Margarit
Copy To: John Lichter
Purchase Order No.:
Project Name: Pine City Airport Air
Project Number:

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #: 39866

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: MN

Reporting Units: ug/m³ mg/m³ PPBV PPMV Other

Report Level II. III. IV. Other

Section D Required Client Information

AIR SAMPLE ID

Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	Sample ID	MEDIA CODE	PID Reading (Client only)	COLLECTED Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	PM10	3C - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	TO-15 Short List (other)	Pace Lab ID
1	VP-1	1LC			941	5/17/19	950	-29	-1	32143	28533					X					001
2	VP-2				1019		1024	-29	-23	29130	06222					X					002
3	VP-3				1204		1215	-30	-2	10020	06511					X					003
4	VP-4				1247		1155	-30	-1	32720	12112					X					004
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Danny Margarit	5/17/19	1820	[illegible]	5/17/19	1820

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
—	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Danny Margarit

SIGNATURE of SAMPLER: Danny Margarit DATE Signed (MM / DD / YY): 5/17/19

ORIGINAL

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 31Jan2019 Page 1 of 1
	Document No.: F-MN-A-106-rev.18	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: Carlson McCain **Project #:**

WO#: 10475498

PM: TS1 **Due Date: 05/28/19**

CLIENT: CARLSON PROF

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Pace ☐ SpeeDee ☐ Commercial **See Exception** ☐

Tracking Number: _____

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☐ Tin Can ☐ Other: _____ **Temp Blank rec:** ☐ Yes ☑ No

Temp. (TO17 and TO13 samples only) (°C): — **Corrected Temp (°C):** —

Thermometer Used: ☐ G87A9170600254 ☐ G87A9155100842

Temp should be above freezing to 6°C **Correction Factor:** —

Date & Initials of Person Examining Contents: 5-20-19 MI

Type of Ice Received ☐ Blue ☐ Wet ☑ None

				Comments:
Chain of Custody Present?	☑ Yes	☐ No		1.
Chain of Custody Filled Out?	☑ Yes	☐ No		2.
Chain of Custody Relinquished?	☑ Yes	☐ No		3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No		6.
Rush Turn Around Time Requested?	☐ Yes	☑ No		7.
Sufficient Volume?	☑ Yes	☐ No		8.
Correct Containers Used?	☑ Yes	☐ No		9.
-Pace Containers Used?	☑ Yes	☐ No		
Containers Intact?	☑ Yes	☐ No		10.
Media: (Air Can) Airbag Filter TDT Passive				11. Individually Certified Cans Y (N) (list which samples)
Is sufficient information available to reconcile samples to the COC?	☑ Yes	☐ No		12.
Do cans need to be pressurized (3C and ASTM 1946 DO NOT PRESSURIZE)?	☑ Yes	☐ No		13.

Samples Received: Pressure Gauge # ☐ 10AIR34 ☐ 10AIR35

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
VP-1	3214	2853	-1	+10					
VP-2	2913	622	-24	+10					
VP-3	1002	651	-2.5	+10					
VP-4	3272	1212	-1.5	+10					

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Dan Margarit Date/Time: 5/20/19

Comments/Resolution: Client wants to proceed with analysis for low pressure can.

Project Manager Review: Tina Sobari **Date:** 5/21/19

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Data File: \\192.168.10.12\chem\10airI.i\052219.b\14231.D
Report Date: 23-May-2019 11:17

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airI.i\052219.b\14231.D
Lab Smp Id: 10475498001
Inj Date : 22-MAY-2019 23:58
Operator : AFV Inst ID: 10airI.i
Smp Info :
Misc Info : 33816
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airI.i\052219.b\TO15_136-19.m
Meth Date : 22-May-2019 14:10 avandenbro Quant Type: ISTD
Cal Date : 16-MAY-2019 12:28 Cal File: 13610.D
Als bottle: 31
Dil Factor: 1.74000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS11

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.740	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

COMPOUND	RT	AREA	AMOUNT
11 Ethanol	3.312	3211	1.467

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown					CAS #:		
3.196	52218	23.8600392	41.5	0		0	11(L)

QC Flag Legend

L - Operator selected an alternate library search match.

Data File: \\192.168.10.12\chem\10airI.i\052219.b\14231.D
Report Date: 23-May-2019 11:17

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10475498001
Operator : AFV
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 22-MAY-2019 23:58

Client SDG: 052219.b

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	3.196	41.5	_J__

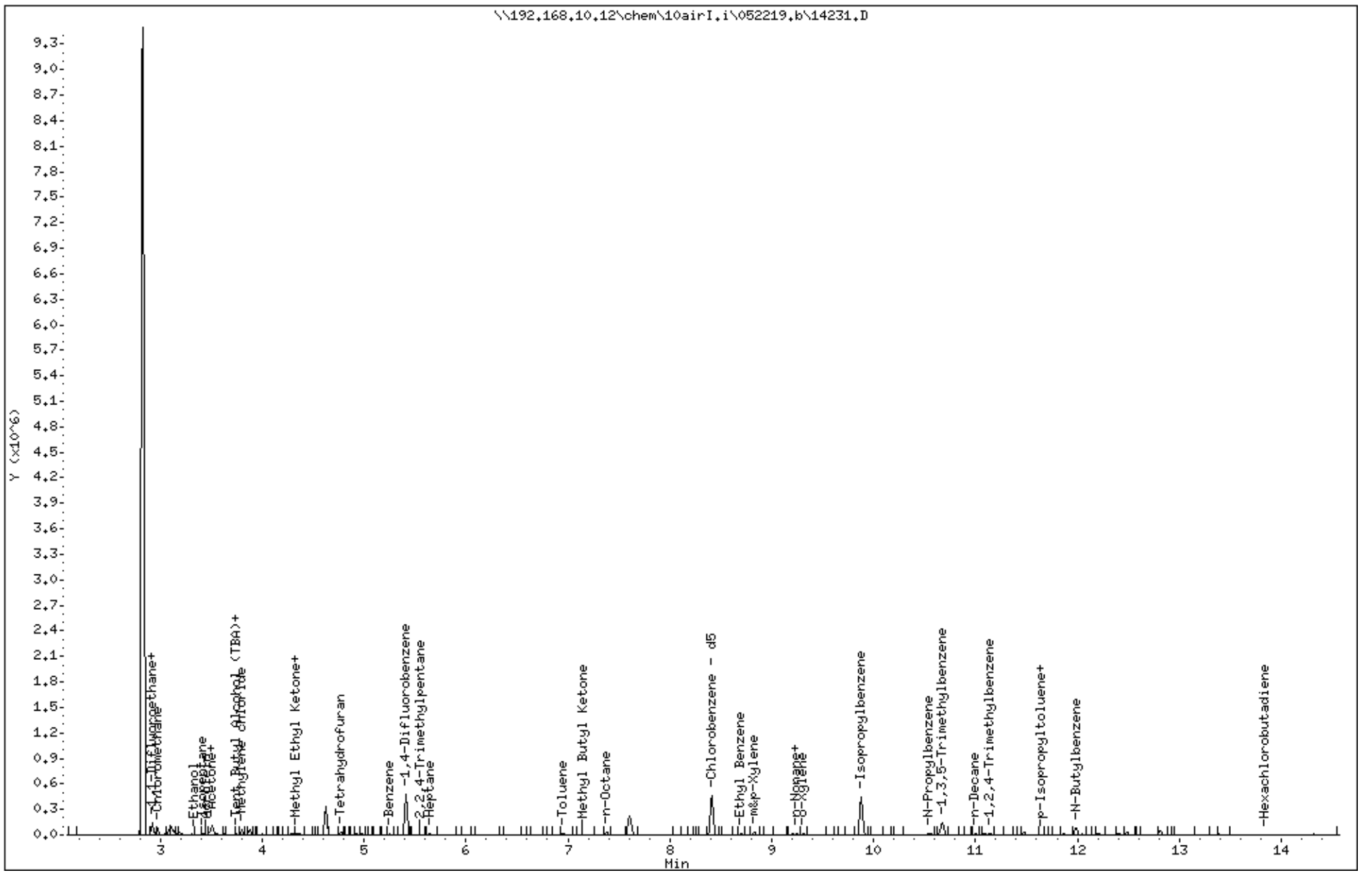
Data File: \\192.168.10.12\chem\10airI.i\052219.b\14231.D
Date : 22-MAY-2019 23:58
Client ID:
Sample Info:

Instrument: 10airI.i

Operator: AFV

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airI.i\052219.b\14232.D
Report Date: 23-May-2019 11:17

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airI.i\052219.b\14232.D
Lab Smp Id: 10475498002
Inj Date : 23-MAY-2019 00:27
Operator : AFV Inst ID: 10airI.i
Smp Info :
Misc Info : 33816
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airI.i\052219.b\TO15_136-19.m
Meth Date : 22-May-2019 14:10 avandenbro Quant Type: ISTD
Cal Date : 16-MAY-2019 12:28 Cal File: 13610.D
Als bottle: 32
Dil Factor: 8.48000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS11

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	8.480	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

COMPOUND	RT	AREA	AMOUNT
77 n-Decane	11.006	7099	0.096

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
2-n-Butyl furan					CAS #: 4466-24-4		
10.933	464112	6.25523477	53.0	64	NBS75K.l	4171	77(L)

QC Flag Legend

L - Operator selected an alternate library search match.

Data File: \\192.168.10.12\chem\10airI.i\052219.b\14232.D
Report Date: 23-May-2019 11:17

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10475498002
Operator : AFV
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 23-MAY-2019 00:27

Client SDG: 052219.b

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 4466-24-4	2-n-Butyl furan	10.933	53.0	NJ__

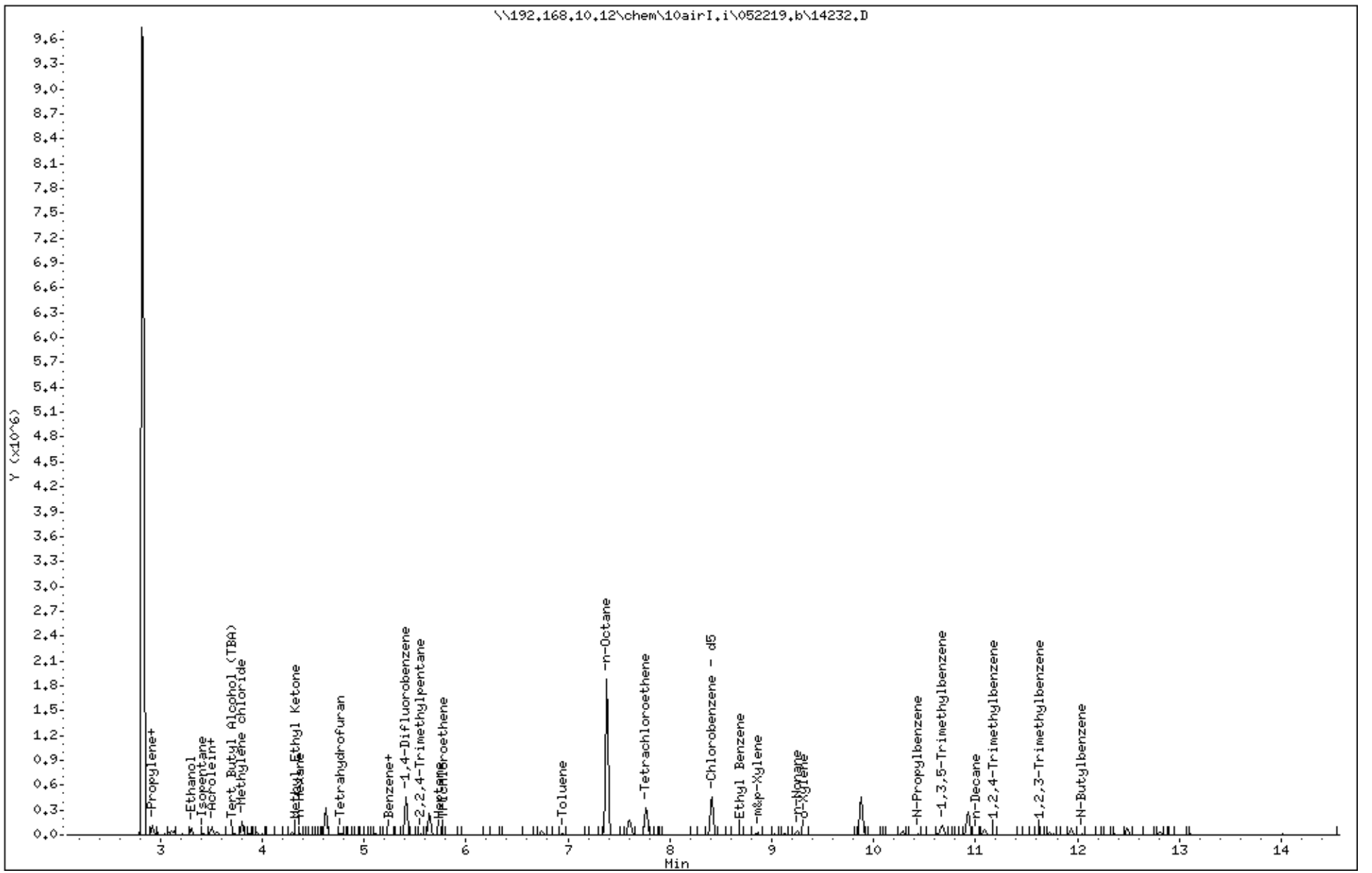
Data File: \\192.168.10.12\chem\10airI.i\052219.b\14232.D
Date : 23-MAY-2019 00:27
Client ID:
Sample Info:

Instrument: 10airI.i

Operator: AFV

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airI.i\052219.b\14233.D
Report Date: 23-May-2019 11:17

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airI.i\052219.b\14233.D
Lab Smp Id: 10475498003
Inj Date : 23-MAY-2019 00:56
Operator : AFV Inst ID: 10airI.i
Smp Info :
Misc Info : 33816
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airI.i\052219.b\TO15_136-19.m
Meth Date : 22-May-2019 14:10 avandenbro Quant Type: ISTD
Cal Date : 16-MAY-2019 12:28 Cal File: 13610.D
Als bottle: 33
Dil Factor: 1.83000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS11

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.830	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

COMPOUND	RT	AREA	AMOUNT
11 Ethanol	3.306	12411	1.618

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Urea					CAS #: 57-13-6		
3.215	101233	13.1940495	24.1	42	NBS75K.l	111	11(L)

QC Flag Legend

L - Operator selected an alternate library search match.

Data File: \\192.168.10.12\chem\10airI.i\052219.b\14233.D
Report Date: 23-May-2019 11:17

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10475498003
Operator : AFV
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 23-MAY-2019 00:56

Client SDG: 052219.b

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 57-13-6	Urea	3.215	24.1	NJ__

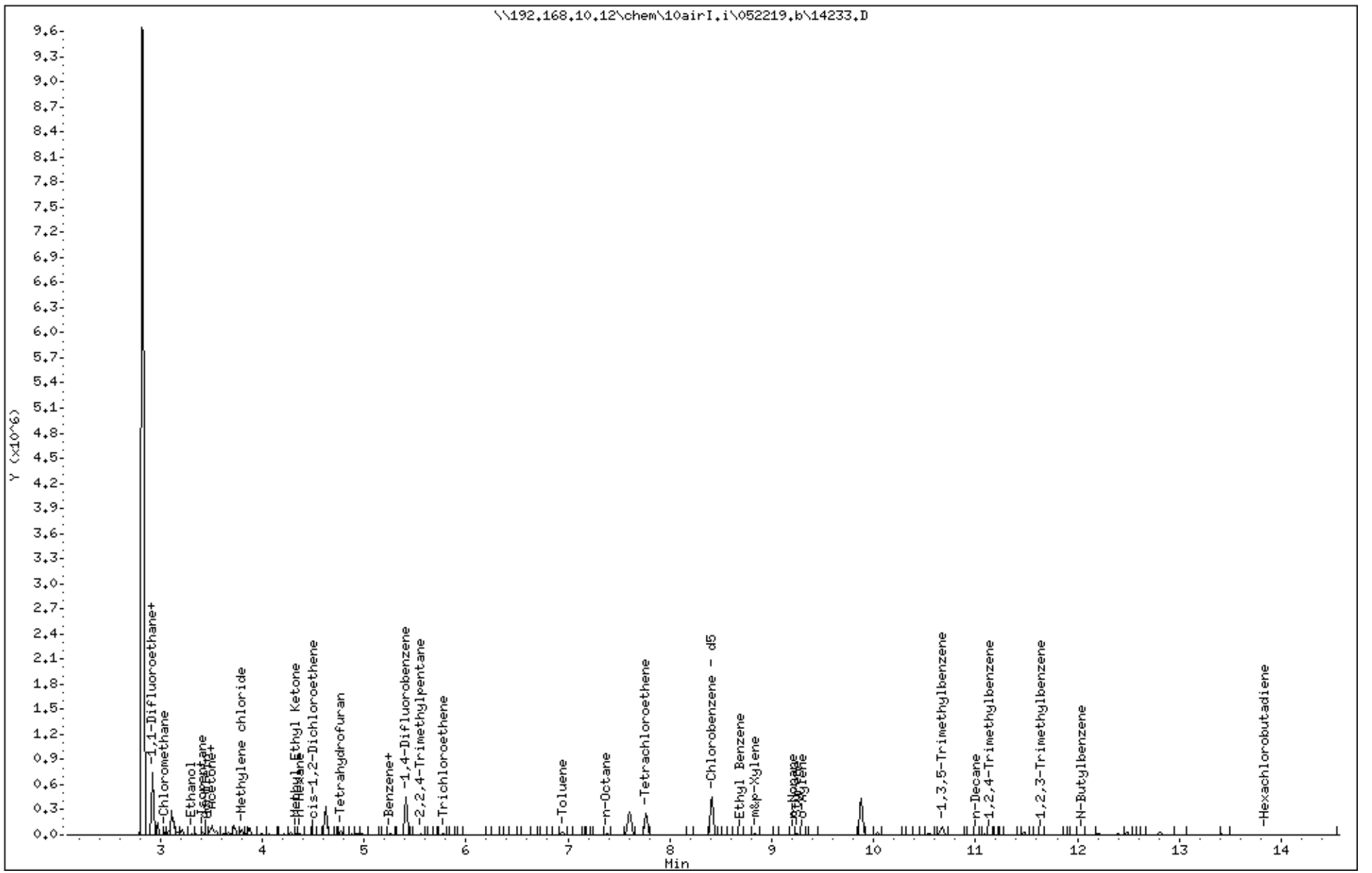
Data File: \\192.168.10.12\chem\10airI.i\052219.b\14233.D
Date : 23-MAY-2019 00:56
Client ID:
Sample Info:

Instrument: 10airI.i

Operator: AFV

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airI.i\052219.b\14234.D
Report Date: 23-May-2019 11:17

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airI.i\052219.b\14234.D
Lab Smp Id: 10475498004
Inj Date : 23-MAY-2019 01:25
Operator : AFV Inst ID: 10airI.i
Smp Info :
Misc Info : 33816
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airI.i\052219.b\TO15_136-19.m
Meth Date : 22-May-2019 14:10 avandenbro Quant Type: ISTD
Cal Date : 16-MAY-2019 12:28 Cal File: 13610.D
Als bottle: 34
Dil Factor: 1.77000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS11

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\192.168.10.12\chem\10airI.i\052219.b\14234.D
Report Date: 23-May-2019 11:17

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 10475498004
Operator : AFV
Sample Location:
Sample Matrix: AIR
Analysis Type: VOA
Inj Date: 23-MAY-2019 01:25

Client SDG: 052219.b

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

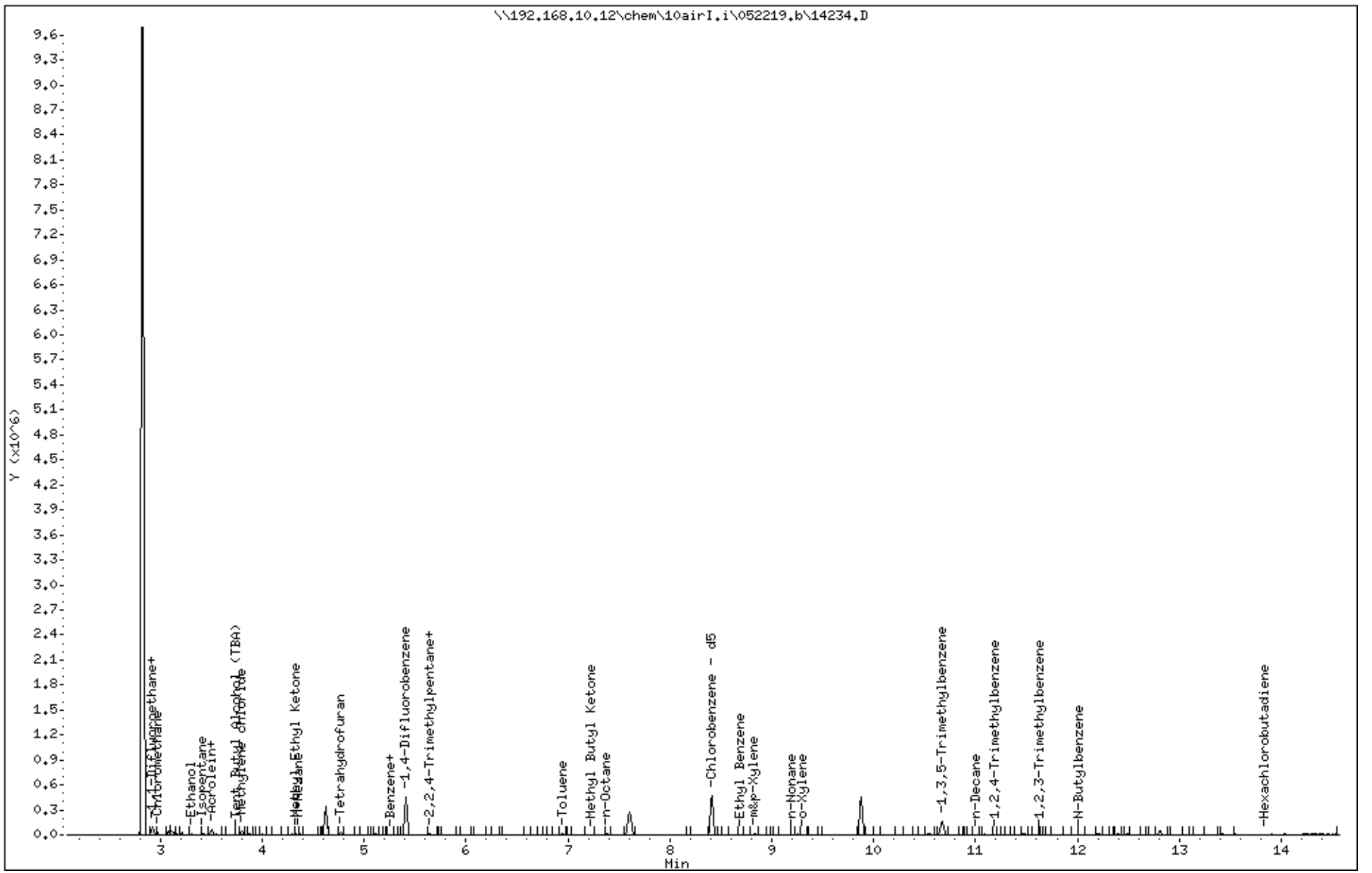
Data File: \\192.168.10.12\chem\10airI.i\052219.b\14234.D
Date : 23-MAY-2019 01:25
Client ID:
Sample Info:

Instrument: 10airI.i

Operator: AFV

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

June 11, 2019

Danny Margarit
Carlson McCain
3890 Pheasant Ridge Drive NE
Minneapolis, MN 55449

RE: Project: Pine City RR
Pace Project No.: 10477195

Dear Danny Margarit:
Enclosed are the analytical results for sample(s) received by the laboratory on May 31, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Soltani
tina.soltani@pacelabs.com
(612)607-6384
Project Manager

Enclosures

cc: John Lichter, Carlson McCain

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Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: Pine City RR
Pace Project No.: 10477195

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

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SAMPLE SUMMARY

Project: Pine City RR
Pace Project No.: 10477195

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10477195001	**XF-4**	Solid	05/29/19 08:57	05/31/19 12:11
10477195002	**XF-40**	Solid	05/29/19 10:11	05/31/19 12:11
10477195003	**XF-56**	Solid	05/29/19 11:09	05/31/19 12:11
10477195004	**XF-68**	Solid	05/29/19 11:34	05/31/19 12:11
10477195005	**XF-82**	Solid	05/29/19 12:22	05/31/19 12:11
10477195006	**XF-111**	Solid	05/29/19 01:15	05/31/19 12:11
10477195007	**XF-128**	Solid	05/29/19 13:48	05/31/19 12:11
10477195008	**XF-146**	Solid	05/29/19 15:18	05/31/19 12:11
10477195009	**XF-164**	Solid	05/29/19 16:06	05/31/19 12:11
10477195010	**XF-190**	Solid	05/30/19 09:44	05/31/19 12:11
10477195011	**XF-206**	Solid	05/30/19 10:12	05/31/19 12:11
10477195012	**XF-229**	Solid	05/30/19 10:51	05/31/19 12:11
10477195013	**XF-252**	Solid	05/30/19 11:46	05/31/19 12:11
10477195014	**XF-270**	Solid	05/30/19 12:15	05/31/19 12:11
10477195015	**XF-288**	Solid	05/30/19 12:47	05/31/19 12:11
10477195016	**XF-314**	Solid	05/30/19 13:59	05/31/19 12:11
10477195017	**XF-332**	Solid	05/30/19 14:26	05/31/19 12:11
10477195018	**XF-350**	Solid	05/30/19 14:46	05/31/19 12:11
10477195019	**XF-364**	Solid	05/30/19 15:12	05/31/19 12:11
10477195020	**XF-399**	Solid	05/30/19 15:57	05/31/19 12:11
10477195021	**XF-408**	Solid	05/30/19 16:10	05/31/19 12:11

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(612)607-1700

SAMPLE ANALYTE COUNT

Project: Pine City RR
Pace Project No.: 10477195

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10477195001	**XF-4**	EPA 6010D	DM	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10477195002	**XF-40**	EPA 6010D	DM	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10477195003	**XF-56**	EPA 6010D	DM	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10477195004	**XF-68**	EPA 6010D	DM	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10477195005	**XF-82**	EPA 6010D	DM	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10477195006	**XF-111**	EPA 6010D	DM	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10477195007	**XF-128**	EPA 6010D	DM	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10477195008	**XF-146**	EPA 6010D	DM	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10477195009	**XF-164**	EPA 6010D	DM	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10477195010	**XF-190**	EPA 6010D	DM	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10477195011	**XF-206**	EPA 6010D	DM	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10477195012	**XF-229**	EPA 6010D	DM	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10477195013	**XF-252**	EPA 6010D	DM	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10477195014	**XF-270**	EPA 6010D	DM	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10477195015	**XF-288**	EPA 6010D	DM	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10477195016	**XF-314**	EPA 6010D	DM	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10477195017	**XF-332**	EPA 6010D	DM	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10477195018	**XF-350**	EPA 6010D	DM	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10477195019	**XF-364**	EPA 6010D	DM	1	PASI-M

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Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: Pine City RR
Pace Project No.: 10477195

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		ASTM D2974	JDL	1	PASI-M
10477195020	**XF-399**	EPA 6010D	DM	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10477195021	**XF-408**	EPA 6010D	DM	1	PASI-M
		ASTM D2974	JDL	1	PASI-M

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ANALYTICAL RESULTS

Project: Pine City RR
Pace Project No.: 10477195

Sample: XF-4 **Lab ID: 10477195001** Collected: 05/29/19 08:57 Received: 05/31/19 12:11 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050							
Lead	**10.9**	mg/kg	0.72	1	06/07/19 12:22	06/07/19 15:39	7439-92-1	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974							
Percent Moisture	**31.5**	%	0.10	1		06/06/19 16:18		

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ANALYTICAL RESULTS

Project: Pine City RR
Pace Project No.: 10477195

Sample: XF-40 **Lab ID: 10477195002** Collected: 05/29/19 10:11 Received: 05/31/19 12:11 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D		Preparation Method: EPA 3050					
Lead	**26.2**	mg/kg	0.53	1	06/07/19 12:22	06/07/19 15:47	7439-92-1	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974							
Percent Moisture	**10.2**	%	0.10	1		06/06/19 16:19		

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ANALYTICAL RESULTS

Project: Pine City RR
Pace Project No.: 10477195

Sample: XF-56 **Lab ID: 10477195003** Collected: 05/29/19 11:09 Received: 05/31/19 12:11 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D		Preparation Method: EPA 3050					
Lead	**12.4**	mg/kg	0.57	1	06/07/19 12:22	06/07/19 15:49	7439-92-1	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974							
Percent Moisture	**16.9**	%	0.10	1		06/06/19 16:19		

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ANALYTICAL RESULTS

Project: Pine City RR
Pace Project No.: 10477195

Sample: XF-68 **Lab ID: 10477195004** Collected: 05/29/19 11:34 Received: 05/31/19 12:11 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D		Preparation Method: EPA 3050					
Lead	**40.4**	mg/kg	0.62	1	06/07/19 12:22	06/07/19 15:50	7439-92-1	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974							
Percent Moisture	**24.0**	%	0.10	1		06/06/19 16:19		

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ANALYTICAL RESULTS

Project: Pine City RR
Pace Project No.: 10477195

Sample: XF-82 **Lab ID: 10477195005** Collected: 05/29/19 12:22 Received: 05/31/19 12:11 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050							
Lead	**586**	mg/kg	0.78	1	06/07/19 12:22	06/07/19 15:55	7439-92-1	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974							
Percent Moisture	**38.9**	%	0.10	1		06/06/19 16:19		

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ANALYTICAL RESULTS

Project: Pine City RR
Pace Project No.: 10477195

Sample: XF-111 **Lab ID: 10477195006** Collected: 05/29/19 01:15 Received: 05/31/19 12:11 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D		Preparation Method: EPA 3050					
Lead	**1720**	mg/kg	0.94	1	06/07/19 12:22	06/07/19 15:57	7439-92-1	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974							
Percent Moisture	**48.1**	%	0.10	1		06/06/19 16:19		

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ANALYTICAL RESULTS

Project: Pine City RR
Pace Project No.: 10477195

Sample: XF-128 **Lab ID: 10477195007** Collected: 05/29/19 13:48 Received: 05/31/19 12:11 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D		Preparation Method: EPA 3050					
Lead	**906**	mg/kg	1.5	1	06/07/19 12:22	06/07/19 15:59	7439-92-1	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974							
Percent Moisture	**66.4**	%	0.10	1		06/06/19 16:19		

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ANALYTICAL RESULTS

Project: Pine City RR
Pace Project No.: 10477195

Sample: XF-146 **Lab ID: 10477195008** Collected: 05/29/19 15:18 Received: 05/31/19 12:11 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D		Preparation Method: EPA 3050					
Lead	**696**	mg/kg	1.2	1	06/07/19 12:22	06/07/19 16:00	7439-92-1	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974							
Percent Moisture	**62.0**	%	0.10	1		06/06/19 16:20		

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ANALYTICAL RESULTS

Project: Pine City RR
Pace Project No.: 10477195

Sample: XF-164 **Lab ID: 10477195009** Collected: 05/29/19 16:06 Received: 05/31/19 12:11 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D		Preparation Method: EPA 3050					
Lead	**125**	mg/kg	1.0	1	06/07/19 12:22	06/07/19 16:02	7439-92-1	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974							
Percent Moisture	**55.0**	%	0.10	1		06/06/19 16:20		

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ANALYTICAL RESULTS

Project: Pine City RR
Pace Project No.: 10477195

Sample: XF-190 **Lab ID: 10477195010** Collected: 05/30/19 09:44 Received: 05/31/19 12:11 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D		Preparation Method: EPA 3050					
Lead	**170**	mg/kg	0.59	1	06/07/19 12:22	06/07/19 16:04	7439-92-1	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974							
Percent Moisture	**18.3**	%	0.10	1		06/06/19 16:20		

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ANALYTICAL RESULTS

Project: Pine City RR
Pace Project No.: 10477195

Sample: XF-206 **Lab ID: 10477195011** Collected: 05/30/19 10:12 Received: 05/31/19 12:11 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D		Preparation Method: EPA 3050					
Lead	**22100**	mg/kg	6.1	10	06/07/19 12:22	06/07/19 16:28	7439-92-1	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974							
Percent Moisture	**23.2**	%	0.10	1		06/06/19 16:20		

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ANALYTICAL RESULTS

Project: Pine City RR
Pace Project No.: 10477195

Sample: XF-229 **Lab ID: 10477195012** Collected: 05/30/19 10:51 Received: 05/31/19 12:11 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D		Preparation Method: EPA 3050					
Lead	**25100**	mg/kg	6.4	10	06/07/19 12:22	06/07/19 16:30	7439-92-1	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974							
Percent Moisture	**23.7**	%	0.10	1		06/06/19 16:20		

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ANALYTICAL RESULTS

Project: Pine City RR
Pace Project No.: 10477195

Sample: XF-252 **Lab ID: 10477195013** Collected: 05/30/19 11:46 Received: 05/31/19 12:11 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D		Preparation Method: EPA 3050					
Lead	**567**	mg/kg	1.0	1	06/07/19 12:22	06/07/19 16:12	7439-92-1	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974							
Percent Moisture	**54.7**	%	0.10	1		06/06/19 16:21		

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ANALYTICAL RESULTS

Project: Pine City RR
Pace Project No.: 10477195

Sample: XF-270 **Lab ID: 10477195014** Collected: 05/30/19 12:15 Received: 05/31/19 12:11 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D		Preparation Method: EPA 3050					
Lead	**167**	mg/kg	0.56	1	06/07/19 12:22	06/07/19 16:17	7439-92-1	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974							
Percent Moisture	**18.7**	%	0.10	1		06/06/19 16:21		

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ANALYTICAL RESULTS

Project: Pine City RR
Pace Project No.: 10477195

Sample: XF-288 **Lab ID: 10477195015** Collected: 05/30/19 12:47 Received: 05/31/19 12:11 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D		Preparation Method: EPA 3050					
Lead	**829**	mg/kg	0.63	1	06/07/19 12:22	06/07/19 16:19	7439-92-1	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974							
Percent Moisture	**23.3**	%	0.10	1		06/06/19 16:21		

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ANALYTICAL RESULTS

Project: Pine City RR
Pace Project No.: 10477195

Sample: XF-314 **Lab ID: 10477195016** Collected: 05/30/19 13:59 Received: 05/31/19 12:11 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D		Preparation Method: EPA 3050					
Lead	**401**	mg/kg	1.0	1	06/07/19 12:22	06/07/19 16:20	7439-92-1	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974							
Percent Moisture	**52.6**	%	0.10	1		06/06/19 16:21		

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ANALYTICAL RESULTS

Project: Pine City RR
Pace Project No.: 10477195

Sample: XF-332 **Lab ID: 10477195017** Collected: 05/30/19 14:26 Received: 05/31/19 12:11 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D		Preparation Method: EPA 3050					
Lead	**38.0**	mg/kg	0.57	1	06/07/19 12:22	06/07/19 16:22	7439-92-1	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974							
Percent Moisture	**19.7**	%	0.10	1		06/06/19 16:21		

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ANALYTICAL RESULTS

Project: Pine City RR
Pace Project No.: 10477195

Sample: XF-350 **Lab ID: 10477195018** Collected: 05/30/19 14:46 Received: 05/31/19 12:11 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D		Preparation Method: EPA 3050					
Lead	**3950**	mg/kg	0.62	1	06/07/19 12:22	06/07/19 16:23	7439-92-1	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974							
Percent Moisture	**21.1**	%	0.10	1		06/06/19 16:21		

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ANALYTICAL RESULTS

Project: Pine City RR
Pace Project No.: 10477195

Sample: XF-364 **Lab ID: 10477195019** Collected: 05/30/19 15:12 Received: 05/31/19 12:11 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D		Preparation Method: EPA 3050					
Lead	**2600**	mg/kg	0.60	1	06/07/19 12:22	06/07/19 16:25	7439-92-1	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974							
Percent Moisture	**20.2**	%	0.10	1		06/06/19 16:22		

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ANALYTICAL RESULTS

Project: Pine City RR
Pace Project No.: 10477195

Sample: XF-399 **Lab ID: 10477195020** Collected: 05/30/19 15:57 Received: 05/31/19 12:11 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050							
Lead	**301**	mg/kg	0.68	1	06/07/19 12:22	06/07/19 16:27	7439-92-1	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974							
Percent Moisture	**32.9**	%	0.10	1		06/06/19 16:59		

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ANALYTICAL RESULTS

Project: Pine City RR
Pace Project No.: 10477195

Sample: XF-408 **Lab ID: 10477195021** Collected: 05/30/19 16:10 Received: 05/31/19 12:11 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D		Preparation Method: EPA 3050					
Lead	**7.7**	mg/kg	0.53	1	06/10/19 12:10	06/11/19 10:08	7439-92-1	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974							
Percent Moisture	**11.7**	%	0.10	1		06/06/19 16:59		

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QUALITY CONTROL DATA

Project: Pine City RR
Pace Project No.: 10477195

QC Batch: 609903 | Analysis Method: EPA 6010D
QC Batch Method: EPA 3050 | Analysis Description: 6010D Solids
Associated Lab Samples: 10477195001, 10477195002, 10477195003, 10477195004, 10477195005, 10477195006, 10477195007, 10477195008, 10477195009, 10477195010, 10477195011, 10477195012, 10477195013, 10477195014, 10477195015, 10477195016, 10477195017, 10477195018, 10477195019, 10477195020

METHOD BLANK: 3296244 | Matrix: Solid
Associated Lab Samples: 10477195001, 10477195002, 10477195003, 10477195004, 10477195005, 10477195006, 10477195007, 10477195008, 10477195009, 10477195010, 10477195011, 10477195012, 10477195013, 10477195014, 10477195015, 10477195016, 10477195017, 10477195018, 10477195019, 10477195020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	ND	0.49	06/07/19 15:35	

LABORATORY CONTROL SAMPLE: 3296245

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	49	48.8	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3296246 3296247

Parameter	Units	10477195001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	10.9	71.6	70.3	73.1	71.7	87	87	75-125	2	20	

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QUALITY CONTROL DATA

Project: Pine City RR
Pace Project No.: 10477195

QC Batch: 611602
QC Batch Method: EPA 3050
Analysis Method: EPA 6010D
Analysis Description: 6010D Solids
Associated Lab Samples: 10477195021

METHOD BLANK: 3304681
Matrix: Solid
Associated Lab Samples: 10477195021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	ND	0.49	06/11/19 10:05	

LABORATORY CONTROL SAMPLE: 3304682

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	45.9	47.1	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3304683 3304684

Parameter	Units	10477195021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	7.7	55.5	53.5	57.3	55.1	89	89	75-125	4	20	

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QUALITY CONTROL DATA

Project: Pine City RR
Pace Project No.: 10477195

QC Batch: 610905 | Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 | Analysis Description: Dry Weight / %M by ASTM D2974
Associated Lab Samples: 10477195001, 10477195002, 10477195003, 10477195004, 10477195005, 10477195006, 10477195007, 10477195008, 10477195009, 10477195010, 10477195011, 10477195012, 10477195013, 10477195014, 10477195015, 10477195016, 10477195017, 10477195018, 10477195019

SAMPLE DUPLICATE: 3300767

Parameter	Units	10477195019 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.2	20.9	4	30	

SAMPLE DUPLICATE: 3301628

Parameter	Units	10477195001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	31.5	41.7	28	30	

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QUALITY CONTROL DATA

Project: Pine City RR
Pace Project No.: 10477195

QC Batch: 610936
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Associated Lab Samples: 10477195020, 10477195021

SAMPLE DUPLICATE: 3300848

Parameter	Units	10477195020 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	32.9	32.2	2	30	

SAMPLE DUPLICATE: 3300849

Parameter	Units	10477224005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	10.7	9.9	7	30	

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(612)607-1700

QUALIFIERS

Project: Pine City RR
Pace Project No.: 10477195

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Pine City RR
Pace Project No.: 10477195

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10477195001	**XF-4**	EPA 3050	609903	EPA 6010D	611431
10477195002	**XF-40**	EPA 3050	609903	EPA 6010D	611431
10477195003	**XF-56**	EPA 3050	609903	EPA 6010D	611431
10477195004	**XF-68**	EPA 3050	609903	EPA 6010D	611431
10477195005	**XF-82**	EPA 3050	609903	EPA 6010D	611431
10477195006	**XF-111**	EPA 3050	609903	EPA 6010D	611431
10477195007	**XF-128**	EPA 3050	609903	EPA 6010D	611431
10477195008	**XF-146**	EPA 3050	609903	EPA 6010D	611431
10477195009	**XF-164**	EPA 3050	609903	EPA 6010D	611431
10477195010	**XF-190**	EPA 3050	609903	EPA 6010D	611431
10477195011	**XF-206**	EPA 3050	609903	EPA 6010D	611431
10477195012	**XF-229**	EPA 3050	609903	EPA 6010D	611431
10477195013	**XF-252**	EPA 3050	609903	EPA 6010D	611431
10477195014	**XF-270**	EPA 3050	609903	EPA 6010D	611431
10477195015	**XF-288**	EPA 3050	609903	EPA 6010D	611431
10477195016	**XF-314**	EPA 3050	609903	EPA 6010D	611431
10477195017	**XF-332**	EPA 3050	609903	EPA 6010D	611431
10477195018	**XF-350**	EPA 3050	609903	EPA 6010D	611431
10477195019	**XF-364**	EPA 3050	609903	EPA 6010D	611431
10477195020	**XF-399**	EPA 3050	609903	EPA 6010D	611431
10477195021	**XF-408**	EPA 3050	611602	EPA 6010D	611972
10477195001	**XF-4**	ASTM D2974	610905		
10477195002	**XF-40**	ASTM D2974	610905		
10477195003	**XF-56**	ASTM D2974	610905		
10477195004	**XF-68**	ASTM D2974	610905		
10477195005	**XF-82**	ASTM D2974	610905		
10477195006	**XF-111**	ASTM D2974	610905		
10477195007	**XF-128**	ASTM D2974	610905		
10477195008	**XF-146**	ASTM D2974	610905		
10477195009	**XF-164**	ASTM D2974	610905		
10477195010	**XF-190**	ASTM D2974	610905		
10477195011	**XF-206**	ASTM D2974	610905		
10477195012	**XF-229**	ASTM D2974	610905		
10477195013	**XF-252**	ASTM D2974	610905		
10477195014	**XF-270**	ASTM D2974	610905		
10477195015	**XF-288**	ASTM D2974	610905		
10477195016	**XF-314**	ASTM D2974	610905		
10477195017	**XF-332**	ASTM D2974	610905		
10477195018	**XF-350**	ASTM D2974	610905		
10477195019	**XF-364**	ASTM D2974	610905		
10477195020	**XF-399**	ASTM D2974	610936		
10477195021	**XF-408**	ASTM D2974	610936		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 2

2285507

Section A Required Client Information:

Company: Carlson McCain
Address: 3840 Pheasant Ridge Drive, Blaine, MN 55449
Email To: Danny Margarit
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Danny Margarit
Copy To: John Lichter
Purchase Order No.:
Project Name: Pine City RR
Project Number:

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 39866

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MN

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

WO#: 10477195

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: Total lead	Residual	Pace Project No./ Lab I.D.
1	XF-4	SL	G			5/29/19	857		1	1								X		001
2	XF-40						1011											X		002
3	XF-56						1109											X		003
4	XF-68						1134											X		004
5	XF-82						1202											X		005
6	XF-111						115													006
7	XF-128						1348													007
8	XF-146						1518													008
9	XF-164						1606													009
10	XF-190					5/30/19	944													010
11	XF-206						1012													011
12	XF-229						1051													012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	5/31		[signature] Pace	5.3.19	1211	2.8	Y	N	Y
							~~2.8~~	Y	N	Y

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Danny Margarit

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 5/31/19

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-C-010-rev.00, 09Nov2017

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of 2

2285508

Section A Required Client Information:

Company: Carlson McCain Inc.
Address: 3890 Pheasant Ridge Dr NE Blaine, MN 55449
Email To: Danny Margarit
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Danny Margarit
Copy To: John Lichter
Purchase Order No.:
Project Name: Pine City RR
Project Number:

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 39866

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MN

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): Analysis Test: Total / Lead

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Total / Lead)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	XF-252	SL	G			5/30/19	1146		1	1								X		013
2	XF-270						1215													014
3	XF-288						1247													015
4	XF-314						1359													016
5	XF-332						1426													017
6	XF-350						1446													018
7	XF-364						1512													019
8	XF-399						1557													020
9	XF-408						1610													021
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	5/31		[signature] Pace	5.31.19	1211	2.8	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Danny Margarit

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 5/31/19

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-C-010-rev.00, 09Nov2017

Pace Analytical	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 09May2019 Page 1 of 1
	Document No.: **F-MN-L-213-rev.28**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Carlson McCain Inc.

Project #: **WO#: 10477195**
PM: TS1 **Due Date: 06/14/19**
CLIENT: CARLSON PROF

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Pace ☐ SpeeDee ☐ Commercial See Exception ☐

Tracking Number: _____

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No **Biological Tissue Frozen?** ☐ Yes ☐ No ☒ N/A

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other: _____ **Temp Blank?** ☒ Yes ☐ No

Thermometer: ☐ T1(0461) ☐ T2(1336) ☐ T3(0459) ☐ T4(0254) ☒ T5(0489) **Type of Ice:** ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted

Note: Each West Virginia Sample must have temp taken (no temp blanks)

Temp should be above freezing to 6°C **Cooler Temp Read w/temp blank:** 3.06 °C **Average Corrected Temp (no temp blank only):** _____ °C **See Exceptions** ☐

Correction Factor: -0.2 **Cooler Temp Corrected w/temp blank:** 2.8 °C

USDA Regulated Soil: (☐ N/A, water sample/Other: _____) **Date/Initials of Person Examining Contents:** CAN 5/31/19

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☒ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

		COMMENTS:
Chain of Custody Present and Filled Out?	☒ Yes ☐ No	1.
Chain of Custody Relinquished?	☒ Yes ☐ No	2.
Sampler Name and/or Signature on COC?	☒ Yes ☐ No ☐ N/A	3.
Samples Arrived within Hold Time?	☒ Yes ☐ No	4.
Short Hold Time Analysis (<72 hr)?	☐ Yes ☒ No	5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other _____
Rush Turn Around Time Requested?	☐ Yes ☒ No	6.
Sufficient Volume?	☒ Yes ☐ No	7.
Correct Containers Used?	☒ Yes ☐ No	8.
-Pace Containers Used?	☒ Yes ☐ No	
Containers Intact?	☒ Yes ☐ No	9.
Field Filtered Volume Received for Dissolved Tests?	☐ Yes ☐ No ☒ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Is sufficient information available to reconcile the samples to the COC?	☒ Yes ☐ No	11. **If no, write ID/ Date/Time on Container Below:** **See Exception** ☐
Matrix: ☐ Water ☒ Soil ☐ Oil ☐ Other _____		
All containers needing acid/base preservation have been checked?	☐ Yes ☐ No ☒ N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes ☐ No ☒ N/A	☐ NaOH ☐ HNO_3 ☐ H_2SO_4 ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☐ Yes ☐ No ☒ N/A	Positive for Res. Chlorine? ☐ Yes ☐ No **pH Paper Lot#** **See Exception** ☐
		Res. Chlorine | 0-6 Roll | 0-6 Strip | 0-14 Strip
Headspace in VOA Vials (greater than 6mm)?	☐ Yes ☐ No ☒ N/A	13. **See Exception** ☐
Trip Blank Present?	☐ Yes ☐ No ☒ N/A	14.
Trip Blank Custody Seals Present?	☐ Yes ☐ No ☒ N/A	Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Tina Soltani **Date:** 6/3/19

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: Clif