



7711 North Port Washington Road
 Milwaukee, WI 53217
 Phone (414) 751-7279
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Letter of Transmittal

Date: 3/4/2019	Job No. 18.0231.02
Attention: Mr. David Hanson	
RE: Proposed Cristo Rey Jesuit HS	
1818 W. National Avenue	
Milwaukee, Wisconsin	

TO: Wisconsin Dept. of Natural Resources
 2300 N. Dr. Martin Luther King, Jr. Drive
 Milwaukee, Wisconsin 53212

WE ARE SENDING YOU

- Shop Drawings Prints Plans Samples Specifications
- Copy of Letter Change Order Other
- Under separate cover via _____ the following items:

COPIES	DATE	BRRTS NO.	DESCRIPTION
1	3/4/2019		Exemption Request & Soil Management Plan per RR-072

THESE ARE TRANSMITTED as checked below:

- For approval Approved as submitted Resubmit ___ copies for approval
- For your use Approved as noted Submit ___ copies for distribution
- As requested Returned for corrections Return ___ corrected prints
- For review and comment
- FOR BIDS DUE: PRINTS RETURNED AFTER LOAN TO US

REMARKS:

David;

Here is another one for your review good sir. Submittal fee of \$1,350.00 has been submitted to Jennifer. Thanks for your assistance with this request.

COPY TO: _____ SIGNED: *Travis W. Peterson*

EXEMPTION REQUEST

**PROPOSED CRISTO REY JESUIT HIGH SCHOOL
1818 W NATIONAL AVENUE
MILWAUKEE, WISCONSIN 53204**

Prepared for:

**Cristo Rey Jesuit High School
1215 South 45th Street
Milwaukee, Wisconsin 53214**

Prepared by:

**Kapur & Associates, Inc.
7711 North Port Washington Road
Milwaukee, Wisconsin 53217**

February 2019

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Section 1 – General Information and Fees

Please see attached forms.

- NR 749 Fees for Requesting Wis. Admin. Code §§NR 718.12 or NR718.15 Exemption

Section 1 – General Information and Fees

Identify the purpose of the exemption by checking each box that applies:

- Manage contaminated soil on the same response action site from which it was generated (§ NR 718.12).
- Manage contaminated soil at a site or facility that is different from the response action site from which it was generated (§ NR 718.12).
- Manage other solid waste at the same site from which it was generated (§ NR 718.15).

If none of the above boxes are checked, the proposed waste management activity cannot be exempted through Wis. Admin. Code § NR 718. Management of waste material from a site other than a response action site may be allowed after obtaining a “low hazard exemption” from the DNR Waste and Material Management Program. Guidance on a ‘low hazard exemption’ request is located: <http://dnr.wi.gov/files/PDF/pubs/wa/wa1645.pdf>.

Identify the applicable Wis. Admin. Code § NR 749 DNR review fees for this submittal by checking the applicable “On-Site Management Fee.” If material will be managed at a site or facility other than where it was generated, also select the appropriate “Off-Site Management Fee.” Record the combined fee sums in the space provided below.

NR 749 Fees for Requesting Wis. Admin. Code §§ NR 718.12 Soil or NR 718.15 Exemption			
Soil or Waste Managed on the Generating Property			
Action	Action Fee	WRRD Fee	On-Site MGMT Fee
Interim Actions per NR 708.11, with SMP and CO applied at other site/facility	\$700	No fee	<input type="checkbox"/> \$700
Remedial Action Plan approval, with SMP, without residual soil CO	\$1050	No fee	<input type="checkbox"/> \$1050
Remedial Action Plan approval, with SMP, with residual soil CO	\$1050	\$300	<input type="checkbox"/> \$1350
SMP submitted separately from a RAP or CO modification, without residual soil CO	\$700	No fee	<input type="checkbox"/> \$700
SMP submitted separately from a RAP or CO modification, with residual soil CO	\$700	\$300	<input type="checkbox"/> \$1000
Closed Sites: CO modification action, with SMP, without residual soil CO	\$1050	No fee	<input type="checkbox"/> \$1050
Closed Sites: CP modification action, with SMP, with residual soil CO	\$1050	\$300	<input checked="" type="checkbox"/> \$1350
Soil Managed on a Site or Facility other than the Generating Property			
Action	Action Fee	WRRD Fee	Off-Site MGMT Fee
Interim Actions per NR 708.11, with SMP and CO applied at other site/facility	\$700	\$350	<input type="checkbox"/> \$1050
Interim Actions per NR 708.11, with SMP and no CO applied at other site/facility	\$700	No fee	<input type="checkbox"/> \$700
All other Actions (Remedial actions, modifications to CO, etc.) with residual soil CO	\$700	\$300	<input type="checkbox"/> \$1000
All other Actions (Remedial actions, post closure modifications, etc.) with no residual soil CO	\$700	No fee	<input type="checkbox"/> \$700
Total of On-Site Management Fee and Off-Site Management Fee			\$ 1350.00

Other: If the request does not conform to one of the options above, summarize the request below and the fee that is being paid:

- 1) **SMP** – A Soil Management Plan submitted in accordance with NR 718.12 (1) and (2) or NR 718.15.
- 2) **“With residual soil CO”** - site will have a residual soil continuing obligation (e.g. engineering control, cap, or cover) applied at the source property at the end of the applicable action; remedial action approval, or approval by an addendum to the closure letter.
- 3) **“Without residual soil CO”** - site that will not have a residual soil continuing obligation applied at the source property at the end of the applicable action.
- 4) **WRRD** – Wisconsin Remediation and Redevelopment Database

Section 2 –Property and Contact Information

Please see attached forms.


- A. Information About the Site or Facility from Which Material is Proposed to be Excavated
- B. Responsible Party Information
- C. Owner Information for Site or Facility from Which Material is Proposed to be Excavated from, if Different than Responsible Party
- D. Requestor Information
- E. Contact Information for Questions About this Request
- F. Information About the Site or Facility Where Contaminated Soil Will Be Disposed, if at a Different Location Than the Site or Facility From Which it Was Generated.
 - The site that is generating the soil will be the same as where it will be disposed and therefore this form was not filled out. Form G was also skipped as directed.

Section 2 –Property and Contact Information

Fill in all applicable portions of this section.


A. Information About the Site or Facility From Which Material is Proposed to be Excavated – Complete all applicable boxes							
BRRTS No. 03-41-000547, 03-41-099673, 03-41-001317, 03-41-101491, 03-41-001060			BRRTS Activity (Site) Name MRS KARLS, NDC INC MEGA MARTS, VALUE VILLAGE, WENNINGER CO				
Response Action Site Address 1818 W National Avenue (Formerly 1823 W Pierce St, 1835 W Pierce St, 1828 W National Ave, 1738 W National Ave, 1728 W National Ave)			VPLE No.				
City Milwaukee			Parcel ID No. 4339927111				
State Wisconsin			FID No. 241302490, 241878450, 241532940, 241883070, 241116040				
County Milwaukee			Zip Code 53204				
WTM Coordinates			WTM Coordinates Represent				
X: 688142.92692		Y: 285500.33161		Source Area <input type="checkbox"/>		Parcel Center <input checked="" type="checkbox"/>	
NW	¼	SE	¼	Sec: 31	T: 07 N	R: 22	E/W: E
Latitude:			Longitude:				
Current Zoning: TL, Institutional Overlay Zone			Current Land Use: Commercial				

The Wis. Admin. Code §§ NR 718.12 and/or NR 718.15 exemption(s) will be issued to the Wis. Admin. Code § NR 700 responsible party identified below and to the owner of the receiving site or facility, if different than the generating site. If there is more than one responsible party or property owner, include the information requested below for each as a separate document and attach to this document. If the responsible party is not the owner of the site or facility, provide that information below.

B. Responsible Party Information			
Responsible Party (RP) Name(s) Andrew Stith		Company Name Cristo Rey Jesuit High School Milwaukee	
Signature(s) 			Date 3/7/19
Mailing Address 1215 South 45th Street		City West Milwaukee	State WI
		ZIP Code 53214	
Phone # (include area code) (414) 436-4600		Email astith@crstoreymilwaukee.org	

C. Owner Information for Site or Facility From Which Material is Proposed to be Excavated from, if Different than Responsible Party			
Responsible Party (RP) Name(s)		Company Name	
Signature(s)			Date
Mailing Address		City	State
		ZIP Code	
Phone No. (include area code)		Email	

Fill in this next section if someone other than the responsible party and/or facility owner is preparing this submittal.

D. Requestor Information				
Last Name Peterson	First Travis	Organization/Business Name Kapur & Associates, Inc.		
Signature(s) 			Date 3/4/2019	
Mailing Address 7711 North Port Washington Road		City Milwaukee	State WI	ZIP Code 53217
Phone No. (include area code) 414-751-7279		Email tpeterson@kapurinc.com		
<p>Check the box that describes the requestor's relationship to the generating property:</p> <p><input checked="" type="checkbox"/> Is the property owner's agent or consultant</p> <p><input type="checkbox"/> Is renting or leasing the property</p> <p><input type="checkbox"/> Is developing the property</p> <p><input type="checkbox"/> Other, describe relationship: _____</p>				

E. Contact Information For Questions About this Request				
Last Name Peterson	First Travis	Organization/Business Name Kapur & Associates, Inc.		
Mailing Address 7711 North Port Washington Road		Email tpeterson@kapurinc.com		
City Milwaukee		Phone No. (include area code) 414-751-7279		
State Wisconsin	Zip Code 53217	Relationship to Requestor (Same, Consultant, Developer, Etc.): Same		

F. Information About the Site or Facility Where Contaminated Soil Will Be Disposed, if at a Different Location Than the Site or Facility From Which it Was Generated.

- The site that is generating the soil will be the same as where it will be disposed and therefore this form was not filled out. Form G was also skipped as requested.

Section 3 – Waste Characterization

A. Describe the material proposed to be managed, including its general makeup, physical characteristics, the homogeneity of the material, the proportion of soil to other solid waste, and any other pertinent descriptors.

On October 10, 2018, Giles Engineering Associates, Inc. completed a Geotechnical Investigation at the subject property. The investigation explored subsurface conditions for the proposed development. Twenty-three borings (Test Borings 1 through 23) were installed across the site. Test Borings 1 through 11 were installed to a depth of 11 feet, Test Borings 12-17 were installed to 26 feet deep, Test Borings 18 through 20 were installed to 16 feet deep, and Test borings 21 through 23 were installed to 16 feet deep. The borings encountered fill to depths ranging from 2 to 6.5 feet below existing grade in general and 11.5 feet below existing grade in test borings 18 and 23. The fill material consisted of silty clay with variable amounts of sand and gravel, or sand with variable amounts of silt and gravel. Various amounts of cinders, asphalt rubble, brick rubble, foundry mater, glass, and concrete rubble were encountered within the fill material at some test borings. Naturally occurring lean clay, sandy silt, and sand with variable amounts of silt was encountered underneath fill material. Groundwater is estimated between 5 and 10 feet below ground. The site is expected to have shallow perched groundwater.

B. Describe the historic and current land use of the site or facility where the contaminated soil or other solid waste originates. State how this site or facility is zoned.

According the Giles report: “A review of historic maps (1984 and 1970 Sanborn Fire Insurance Maps) of the site and surrounding area indicate that numerous building occupied the site in 1894 and 1910, prior to the construction of the existing asphalt-paved parking lot and building.” A review of historical aerial photographs show that the property was developed as residential prior to the 1937 aerial. The site became gradually more commercial with large areas of parking. The current site layout was constructed prior to 2000. The subject property is currently a vacant commercial building – an 111,453 square-foot, single story, masonry building that was formerly used as a grocery store – and strip mall and parking area. The site is zoned TL (Commercial with an Institutional Overlay Zone).

C. Total volume of contaminated soil and/or other solid waste to be managed (cubic yards):

The estimated amount of soil to be managed onsite is approximately 1525 cubic yards. Part of that estimate includes petroleum contaminated soils that will be disposed of at a licensed landfill.

D. Describe identified contaminants and the source(s). Indicate whether contaminant concentrations exceed Wis. Admin. Code § NR 720 Residual Contaminant Levels. Include a summary table, map with sample locations, and relevant laboratory data.

Identified contaminants at the site include Polychlorinated Aromatic Hydrocarbons (PAHs), Resource Conservation and Recovery Act (RCRA) Metals, and Volatile Organic Compounds.

Kapur & Associates, Inc. (Kapur) collected samples from geotechnical borings after being notified. All geotechnical borings were not sampled due to notification after borings were already completed. Fifteen samples were collected from B-1, B-2, B-4, B-12, B-16 through B-23, on September 18, 2018. Kapur collected seven additional samples from five additional borings on December 5, 2018.

PAHs

- Benzo(a)anthracene was detected in B-21(2-3.5') above NR 720 Residential Direct Contact RCLs.
- Benzo(a)pyrene was detected in B-21(2-3.5') above NR 720 Industrial Direct Contact RCL, the Residential Direct Contact RCL, and the Soil to Groundwater Pathway RCL; in B-19(0.5-3.5') and B-23(0.5-2') above the NR 720 Residential Direct Contact RCL, and the Soil to Groundwater Pathway RCL; and in GP-14(1-3') above the NR 720 Residential Direct Contact RCL.
- Benzo(b)fluoranthene was detected in B-21(2-3.5') above the NR 720 Residential Direct Contact RCL and the Soil to Groundwater Pathway RCL, and in B-23(0.5-2') above the NR 720 Soil to Groundwater Pathway RCL.
- Chrysene was detected in B-19(0.5-3.5'), B-21(2-3.5'), B-23(0.5-2') and GP-14(1-3') above the NR 720 Soil to Groundwater Pathway.
- Dibenz(a,h)anthracene was detected in B-21(2-3.5') above NR 720 Residential Direct Contact RCLs.
- Indeno(1,2,3-cd)pyrene was detected in B-21(2-3.5') above NR 720 Residential Direct Contact RCLs.
- Naphthalene was detected in B-21(2-3.5') and B-21(14.5-16') above the NR 720 Soil to Groundwater Pathway.

RCRA Metals

- Arsenic was detected in B-21(2-3.5') above NR 720 Industrial Direct Contact RCLs and in all other borings below background threshold values.
- Barium was detected in B-21(2-3.5') above the NR 720 Soil to Groundwater Pathway and in B-12(2-3.5') above the NR 720 Soil to Groundwater Pathway but below background threshold values.
- Cadmium was detected in B-21(2-3.5') above the NR 720 Residential Direct Contact RCL and Soil to Groundwater Pathway RCL.
- Lead was detected in B-21(2-3.5') above the NR 720 Industrial Direct Contact RCL, Residential Direct Contact RCL and the Soil to Groundwater Pathway RCL; in B-12(2-

- 3.5') above the NR 720 Residential Direct Contact RCL and the Soil to Groundwater Pathway RCL; and in B-23(0.5-2') above the NR 720 Soil to Groundwater Pathway RCL.
- Mercury was detected in B-21(2-3.5') above the NR 720 Soil to Groundwater Pathway RCL.
 - Selenium was detected in B-21(2-3.5') above the NR 720 Soil to Groundwater Pathway RCL.
 - Silver was detected in B-21(2-3.5') above the NR 720 Soil to Groundwater Pathway RCL.

VOCs

- 1,2-Dichlorobenzene was detected in B-21(2-3.5') above the NR 720 Soil to Groundwater Pathway.
- 1,2-Dichloroethane was detected in B-12(2-3.5'), B12(9.5-11'), B23(12-13.5) and GP-16(6-8') above the NR 720 Soil to Groundwater Pathway.
- 1,4-Dichlorobenzene was detected in B-12(2-3.5') and B-21(2-3.5') above the NR 720 Soil to Groundwater Pathway.
- Chlorobenzene was detected in B-12(2-3.5') and B-21(2-3.5') above the NR 720 Soil to Groundwater Pathway.
- Methylene Chloride was detected above the NR 720 Soil to Groundwater Pathway in all samples taken on September 18, 2018. Methylene Chloride is a known laboratory contaminant.
- Naphthalene was detected in B-21(2-3.5') above the NR720 Soil to Groundwater Pathway.

The source for petroleum related compounds detected in B-12 and B-23 is the closed LUST activity #03-41-00547 Mrs Karls (Interstate Brands Corp). The source for petroleum related compounds detected in B-21 is the closed LUST activity #03-41-001317 Value Village. The onsite low-level remaining contamination maybe attributed to sitewide onsite fill.

E. Describe the sampling activities conducted to characterize the material including where the samples were collected from, how sample locations were chosen, the sampling methods used, and when sampling activities were conducted.

Kapur & Associates, Inc. (Kapur) collected samples from geotechnical borings after being notified. All geotechnical borings were not sampled due to notification after borings were already completed. Fifteen samples were collected from B-1, B-2, B-4, B-12, B-16 through B-23, on September 18, 2018. Kapur collected seven additional samples from five additional borings on December 5, 2018. Sample locations were based upon geotechnical needs for the proposed onsite building and suitability for soil use for building foundations.

F. Explain how the sampling activities adequately characterized the contaminated soil or other solid waste proposed to be managed. Indicate whether the samples were analyzed for all contaminants previously identified at the site or facility where the material will be generated and analyzed for all contaminants potentially present at the site or facility considering current and historic land use. Discuss how samples were collected from areas most likely to be contaminated and from material that will actually be managed under this exemption.

All soil borings from across the site were analyzed for the same contaminants previously identified at the site. Soil samples were taken in known previous areas of contamination and underneath the building foundation to characterize for removal of soil for building footings. Depth of samples for the second round of borings was determined based upon soil suitability for building foundations.

G. Total number of samples collected from this material and analyzed for contaminants of concern.

A total of 22 samples have been collected from the site.

H. Rate of sample collection per volume (samples/cubic yard).

An estimated 1,525 cubic yards will be managed onsite. Twenty-two samples were collected at the site. Therefore, more than one sample was taken for every 100 yards of material to be managed.

I. Wis. Admin. Code § NR 718.12(1)(e) requires that samples collected to characterize soil be collected at a rate of one sample per 100 yards (for the first 600 yards) and one sample for each additional 300 yards of material, with a minimum of 2 samples. If the DNR pre-approved an alternative sampling plan, describe how the sampling that was conducted complied with a pre-approved plan. Provide the date the sampling plan was pre-approved and the name of the DNR person who approved the plan.

One sample per approximately 70 yards was collected at the site. No modifications are necessary.

Section 4 – Project Description/Material Management Plan

A. Describe the waste management activities that will require a Wis. Admin. Codes §§ NR 718.12 or NR 718.15 exemption. Provide details on how and where waste material will be generated, transported and placed. Describe the depth of the proposed excavation of contaminated soil or other solid waste, and the depth that it will be placed at the receiving site. Describe any response actions proposed for the receiving site or facility to address the relocated contaminated material (such as the construction of a cap). Confirm the proposed material management will comply with Wis. Admin. Code § NR 726.13(1)(b) 1 through 5. Discuss how material management activities will fit in with the overall property remediation and/or development plans.

As construction activities may encounter residual PAH, VOC, and RCRA Metals contaminated soils, the following precautions and soil handling methods will be implemented:

- A hotspot remedial excavation will occur in the area of B-23 and B-12; and in the area of B-21. All soils will be monitored using a PID meter, sampled, and sent to a licensed disposal site.
- Soil excavation and relocation monitoring, including:
 - Maintaining field logs of all excavation activities.
 - Photographic documentation of excavation and soil relocation activities showing soil conditions.
 - Periodic field screening of excavation soils utilizing a PID meter. Logging of field screening analysis results.
 - Preparation of a Soil Management Plan Completion Report detailing construction excavation and soil relocation activities along with soil screening analysis results.
- If soil cannot be reused on-site due to volume or geotechnical restrictions, the soil will be transported to a licensed landfill for disposal in accordance with ch. NR 718, Wisconsin Administrative Code.
- The final site layout will include a school building, athletic field, two asphalt parking lots, and landscaped greenspace and hardscape. The building is proposed as slab-on-grade construction.
- Erosion control means will be implemented around the worksite as needed.

B. Summarize the proposed schedule for implementation of the material management plan including anticipated start and end dates.

Upon approval from the Department the material management plan (Soil Management Plan) will be implemented immediately at project commencement. The management plan is intended to stay in effect until project end or approximately 11-12 months from breaking ground.

C. Describe any procedures that have been established, or methods that will be used, to identify previously undocumented contamination during the completion of this project (such as instrument field screening, visual inspections, etc.). Also describe any contingency procedures that have been established to address unexpected contamination. The discovery of a previously

unknown contaminant release on a property must be immediately reported to the DNR using the 'Notification for Hazardous Substance Discharge (non-emergency)' form.

- Soil excavation and relocation monitoring, including:
 - Maintaining field logs of all excavation activities.
 - Photographic documentation of excavation and soil relocation activities showing soil conditions.
 - Periodic field screening of excavation soils utilizing a PID meter. Logging of field screening analysis results.

If previously undocumented contamination is encountered during excavation activities field personnel will be onsite to stop work and collect samples for analysis. The area in which the unexpected contamination is discovered will be left until sample results are received and proper handling of the soils can be completed.

D. Summarize how the proposed management activities will prevent or minimize adverse environmental impacts and potential threats to human health and welfare, including worker safety, by assessing how all potential exposure and migration pathways of concern, including direct contact exposure, vapor intrusion, ground water, surface water, sediment and any other relevant pathway will be addressed by the proposed management.

The final development plan calls for school, asphalt/concrete parking and drive areas, greenspace and athletic fields. The majority of the petroleum contaminated material will be disposed of offsite. The low-level contaminated material will be managed onsite and will remain under building foundation or under needed fill to level the site. The engineered barrier (building, asphalt/concrete) will serve as a preventative layer preventing direct contact exposure and groundwater influence. Vapor intrusion will not likely be of a significant concern due to the removal of soil contamination in areas of petroleum contamination. However, a passive (with the ability to convert to active) sub-slab system/s will be installed should the extents of PVOC/VOC impacted soils not completely be reached during the hot-spot excavation actions. Surface water, sediment or other potential pathways have been assessed and are not a concern to this project design.

Section 5 – Receiving Site or Facility Information

A. Is the receiving site or facility the same as the generating site? X Yes No

B. Describe the historic, current and proposed land use of the site(s) or facility(s) where the contaminated soil or other solid waste will be managed. How are these site(s) or facility(s) zoned?

According the Giles report: “A review of historic maps (1984 and 1970 Sanborn Fire Insurance Maps) of the site and surrounding area indicate that numerous building occupied the site in 1894 and 1910, prior to the construction of the existing asphalt-paved parking lot and building.” A review of historical aerial photographs show that the property was developed as residential prior to the 1937 aerial. The site became gradually more commercial with large areas of parking. The current site layout was constructed prior to 2000. The subject property is currently a vacant commercial building – an 111,453 square-foot, single story, masonry building that was formerly used as a grocery store – and strip mall and parking area. The site is zoned TL (Commercial with an Institutional Overlay Zone).

The site is now in the final approval stages of proposed redevelopment and part of the development plans involves construction of a one- and two-story school building, two asphalt parking lots, hardscape, greenspace, and an athletic field. the site will remain zoned TL (Commercial with an Institutional Overlay Zone).

C. Identify current uses of all properties adjacent to the site or facility. Check all that apply.

Agricultural		N		S		E		W		NE		NW		SE		SW
Industrial	X	N		S	X	E		W	X	NE	X	NW		SE		SW
Recreational		N		S		E		W		NE		NW		SE		SW
Residential		N	X	S		E	X	W		NE	X	NW	X	SE		SW
Undeveloped		N		S		E		W		NE		NW		SE		SW
Commercial		N	X	S	X	E	X	W		NE		NW	X	SE	X	SW
Other		N		S		E		W		NE		NW		SE		SW

D. Briefly describe any previous environmental site investigations or remedial actions conducted at the site or facility. Describe the environmental condition of the portion of the receiving site or facility where waste will be placed including what contaminants are present, the environmental sampling conducted in that area, and whether identified contaminant concentrations exceed applicable standards.

03-41-000547 Mrs Karls (Interstate Brands Corp)

The WDNR was notified of site contamination on December 14, 1989. A site investigation was conducted and submitted to the Department of Commerce. The site was closed on March 21, 2007, with continuing obligations including residual soil contamination, and residual soil contamination in the Pierce Street right of way. Residual soil contamination is listed as benzene at 9.8 ug/kg in

B-4, and DRO (260 to 2,200 mg/kg) in B-2, B-3, B-5, B-6, B-7, SB-8, SB-9, and SB-13. PAHs, RCRA Metals and a full suite of VOCs were not analyzed. Contaminated material from this area (B-23 and B-12) is planned for offsite (licensed landfill) disposal.

03-41-099673 NDC Inc Mega Marts

The WDNR was notified of site contamination on April 4, 1996. The was closed by the Wisconsin Department of Commerce on August 19, 1997. No documented residual soil contamination.

03-41-001060 Wenninger Co

The WDNR was notified of site contamination on April 6, 1990. A Tank Closure Environmental Site Assessment was submitted on September 17, 1990. A Site Investigation was submitted on October 12, 1995. An Additional Remediation Assessment was submitted on May 20, 1996. The site was closed by the Wisconsin Department of Commerce on April 30, 1996. PAHs, RCRA Metals and a full suite of VOCs were not analyzed. No documented residual soil contamination.

03-41-101491 NDC Inc/Mega Marts

The WDNR was notified of site contamination on May 13, 1996. A Remediation Assessment was submitted on March 31, 1997. The was closed by the Wisconsin Department of Commerce on June 18, 1997. No documented residual soil contamination.

03-41-001317 Value Village

The WDNR was notified of site contamination on October 21, 1990. A Remediation Assessment was submitted on March 7, 1997. The was closed by the Wisconsin Department of Commerce on May 29, 1997. No PVOCs or PAHs were detected in closure samples. DRO was detected at concentrations between 6 and 20 mg/kg.

Soil excavated for building footings in the area near GP-14 and GP16 will be spread in the areas adjacent to the footing excavation. In GP-14 chrysene was detected above the NR Soil to Groundwater Pathway. In GP-16 1,2-dichloroethane was detected above the NR Soil to Groundwater Pathway.

E. Describe any environmentally sensitive areas at or near the site or facility where the contaminated soil will be managed.

There are no environmentally sensitive areas at or near the site.

F. Describe any other features of this property not addressed above that influence its suitability for the disposal of the contaminated soil or other solid waste.

There are no other features of this property no addressed above that influence its suitability.

G. Briefly discuss the geology and hydrogeology of the receiving site or facility, including information from any previous remedial investigations and well logs or well construction records from nearby wells. Also, provide the information requested below indicating whether the response is based on regional or site-specific information.

Geotechnical borings encountered fill to depths ranging from 2 to 6.5 feet below existing grade in general and 11.5 feet below existing grade in test borings 18 and 23. The fill material consisted of silty clay with variable amounts of sand and gravel, or sand with variable amounts of silt and gravel. Various amounts of cinders, asphalt rubble, brick rubble, foundry mater, glass, and concrete rubble were encountered within the fill material at some test borings. Naturally occurring lean clay, sandy silt, and sand with variable amounts of silt was encountered underneath fill material. Groundwater is estimated between 5 and 10 feet below ground. The site is expected to have shallow perched groundwater.

Depth to Bedrock (ft. below ground surface):	Greater than 100' bgs – Regional
Bedrock Type:	Limestone/Dolomite
High Groundwater Level (ft. below ground surface):	5 to 10 ft bgs (perched) – Site Specific
Groundwater Flow Direction:	East – Regional

Section 6 – Locational Criteria

Indicate if excavated waste material will be placed in any of the following locations:

- Within a floodplain.
- Within 100 feet of any wetland or critical habitat area.
- Within 300 feet of any navigable river, stream, lake, pond, or flowage.
- Within 100 feet of any on-site water supply well or 300 feet of any off-site water supply well.
- Within 3 feet of the high groundwater level.
- At a depth greater than the depth of the original excavation from which the contaminated soil was removed.

Include an explanation of why granting an exemption to the Wis. Admin. Code § NR 718.12(1)(c) locational criteria will not cause a threat to public health, safety, welfare and the environment by assessing how all potential exposure and migration pathways of concern, including direct contact exposure, vapor intrusion, ground water, surface water, sediment and any other relevant pathway will be addressed by the proposed management. Consider the quantity and characteristics of the waste being managed, the geologic and hydrogeological characteristics of the receiving site, the unavailability of other environmentally suitable alternatives, and whether the activities will comply with other state and federal regulations including other portions of Wis. Admin. Code §§ NR 700 to NR 754. Attach your response to the end of this document.

The final development plan calls for a school, athletic field, asphalt/concrete parking and drive areas, and greenspace. The majority of the petroleum contaminated material will be disposed of offsite. The low-level contaminated material will be managed onsite and will remain under building foundation or under needed fill to level the site. The building, asphalt/concrete will serve as a preventative layer preventing direct contact exposure and groundwater influence. Vapor intrusion will not likely be of a significant concern due to the removal of soil contamination in areas of petroleum contamination. However, a passive (with the ability to convert to active) sub-slab system/s will be installed should the extents of PVOC/VOC impacted soils not completely be reached during the hot-spot excavation actions. Surface water, sediment or other potential pathways have been assessed and are not a concern to this project design.

Section 7 – Additional Information Required for Non-Metallic Mine Receiving Sites or Facilities

This section is not applicable as the proposed disposal facility is not a non-metallic mine.

Section 8 – Continuing Obligations at Receiving Site or Facility

Check the applicable boxes to indicate which continuing obligations will be specifically required to address the waste material being managed on the receiving property:

No Continuing Obligations

Residual Soil Contamination:

If contaminated soil managed under this soil management plan is excavated in the future, the property owner at the time of excavation will be responsible for the following:

- determine if contamination is present,
- determine whether the material would be considered solid or hazardous waste,
- ensure that any storage, treatment or disposal is in compliance with applicable statutes and rules.

Contaminated soil may be managed in accordance with Wis. Admin. Code § NR 718, with prior DNR approval. In addition, all current and future property owners and occupants of the property and right-of-way holders need to be aware that excavation of the contaminated soil may pose a hazard and as a result special precautions may need to be taken during excavation activities to prevent a health threat to humans. A historic fill exemption is required prior to construction of any structures over fill materials.

Depending on site-specific conditions, construction over contaminated soils or groundwater may also result in vapor migration of contaminants into enclosed structures or migration along underground utility lines. The potential for vapor intrusion and means of mitigation should be evaluated when planning any future redevelopment, and measures should be taken to ensure the continued protection of public health, safety, welfare and the environment at the site.

Maintenance of a cover:

A soil cover/engineered cover/other has been placed over remaining contamination and this cover must be maintained. Inspections will be required, and submittal of inspection reports may be required. Certain activities which would disturb the cover or barrier will be prohibited. If the cover is approved for industrial land use, notification of the DNR is required before changing to a non-industrial use, to determine if the cover will be protective for that use. A maintenance plan is attached, which describes the maintenance activities to be required. If the DNR requires changes to the maintenance plan, an updated maintenance plan must be provided at the completion of the soil disposal action. A map is attached which shows the location of the extent of contaminated materials and the extent of the cover.

Use of Industrial Land Use Soil Standards:

Industrial soil standards have been applied for the site receiving the contaminated materials. The DNR must be notified if the property land use will change from industrial use to a non-industrial land use. Additional investigation and remediation may be required prior to the change in land use to ensure the site conditions are protective for the planned land use.

Vapor: Future Actions to Address Vapor Intrusion:

While vapor intrusion does not currently exist, if a building is constructed on this property, or reconstructed, or if use of a building is changed to a non-industrial use, vapor intrusion may be a concern. The DNR must be notified before construction of a building or changing the use of an existing building to non-industrial use. The use of vapor control technologies or an assessment of the potential for vapor intrusion will be required at that time.

□ Site specific condition:

Describe the site-specific condition: Though maintenance of a soil cover/engineered barrier over the remaining onsite contamination is not required as impacts identified within the project area (that are being disturbed) are not located within the upper 4 feet or direct contact zone, Please Note: the entire redevelopment and construction of building, asphalt/concrete parking and drive areas, and landscaped greenspace will cover the residual soil contamination and will be maintained per the school facilities/grounds maintenance requirements.

Section 9 – Figures

Attach to this form figures that clearly depict the items listed below. All maps should be drawn to scale not larger than 1 inch equal to 100 feet and labeled with the site or facility name and address. The location of the property and the specific disposal area must be provided in sufficient detail to allow DNR personnel to inspect these areas in the future. Providing a ‘cut/fill’ map that clearly depicts how much material will be removed or added to different areas of the involved property(ies) and depicting how material will be moved across the site is highly recommended. Providing cross sections that depict site conditions before and after soil management activities is also recommended.

- The boundaries of each property involved in the project as well as named and unnamed roads or access points, buildings and other surface features, underground utilities, land uses on adjacent properties, and known and potential sources of hazardous substances.*
- The location of wetlands, critical habitat areas, floodplains, surface water bodies, water supply wells, or other possible receptors located near or within the area where material will be managed.*
- The lateral extent and depth of planned excavation, grading, or otherwise disturbed areas.*
- The lateral extent and thickness of excavated material placement locations.*
- Soil sample locations at the generating and receiving sites. Depict applicable soil contaminant concentration data and sample depths. Indicate the extent of contamination exceeding a RCL.*
- Depth to groundwater.* No wells have been constructed on the site and depth to groundwater was not shown or within a table within the Closure Packet for the larger site. The Wisconsin Testing Laboratories LLC., March 1, 2017, *Geotechnical Investigation* report states that “No significant groundwater seepage was detected in the test borings. Based on the soil colorations, it appears that the historic normal groundwater level at this site is 15.5 to 17.5 ft. below existing grade.
- The extent of any performance standards (such as a barrier or cap) that will be required at the completion of management activities.*

*Though maintenance of a soil cover/engineered barrier over the remaining onsite contamination is not required as impacts identified within the project area (that are being disturbed) are not located within the upper 4 feet or direct contact zone, Please Note: the entire redevelopment and construction of building, asphalt/concrete parking and drive areas, and landscaped greenspace will cover the residual soil contamination and will be maintained per the school facilities/grounds maintenance requirements.



Legend

- SUBJECT PROPERTY
- MILWAUKEE COUNTY PARCELS



KAPUR & ASSOCIATES, INC.
CONSULTING ENGINEERS

7715 N. PORT WASHINGTON ROAD
MILWAUKEE, WISCONSIN 53217
Phone: 414.351.6568 Fax: 414.351.4117

www.kapurengineers.com

SHEET:
AERIAL PHOTOGRAPH

PROJECT:
CRISTO REY JESUIT HIGH SCHOOL

LOCATION:
1818 WEST NATIONAL AVENUE, MILWAUKEE, WI, 53204

FIGURE:

1

NORTH ARROW:



0 100 200 Feet

0 100 200

1 inch = 200 feet

we listen. we innovate.
we turn your vision into reality.

DRAWN BY: JMS

CHECKED BY: TEH

APPROVED BY: TWP

PROJECT NO. 18.0231.01

DATE: 02/04/2019

REVISION DATE:

ALTA/NSPS LAND TITLE SURVEY

CLIENT

DeMichele Company

SITE ADDRESS

1818 W. National Avenue, City of Milwaukee, Milwaukee County, Wisconsin.

BASIS OF BEARINGS

Bearings are referenced to the South line of West Pierce Street which is assumed to bear N88°29'19"E.

TABLE "A" ITEMS

11. Utility lines are shown from visible surface evidence, municipal plans and from plans and markings provided by Diggers Hotline, the One-call Utility Marking System (Wisconsin Statute 182.0175), Ticket Number 20165103762. This survey represents the underground utilities that participated with the request and were marked on the time of the survey. Additional utilities may exist, but were non-responsive to the request.

MUNICIPAL ZONING

Municipal Code: Sec. 295-907.
Site is zoned: PD (Planned Development District)

Setbacks are according to the approved site plan at the time of development by the City of Milwaukee Plan Commission.

LEGAL DESCRIPTION

PARCELS 1 AND 2 OF CERTIFIED SURVEY MAP NO. 4352, AND LANDS IN THE SOUTHEAST 1/4 OF SECTION 31 IN TOWNSHIP 7 NORTH, RANGE 22 EAST, IN THE CITY OF MILWAUKEE, COUNTY OF MILWAUKEE, STATE OF WISCONSIN, BOUNDED AND DESCRIBED AS FOLLOWS: COMMENCING AT THE NORTHWEST CORNER OF SAID 1/4 SECTION; THENCE SOUTH 00 DEGS. 54'47" EAST ALONG THE WEST LINE OF SAID 1/4 SECTION 34.87 FEET TO A POINT ON THE SOUTH LINE OF WEST PIERCE STREET, SAID POINT BEING THE POINT OF BEGINNING OF THE LANDS TO BE DESCRIBED; THENCE NORTH 88 DEGS. 29'19" EAST ALONG SAID SOUTH LINE 851.26 FEET TO A POINT; THENCE SOUTH 00 DEGS. 54'47" EAST AND PARALLEL TO THE WEST LINE OF SOUTH 16TH STREET 403.20 FEET TO A POINT ON THE NORTH LINE OF WEST NATIONAL AVENUE; THENCE SOUTH 84 DEGS. 59'27" WEST ALONG SAID NORTH LINE 853.39 FEET TO A POINT ON THE EAST LINE OF SOUTH 20TH STREET; THENCE NORTH 00 DEGS. 54'47" WEST ALONG SAID EAST LINE 455.27 FEET TO THE POINT OF BEGINNING.

EXCEPTED THEREFROM THE FOLLOWING DESCRIBED PARCEL:

SITUATED ON WEST NATIONAL AVENUE, IN THE CITY OF MILWAUKEE, MILWAUKEE COUNTY, WISCONSIN. THAT PART OF THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 31, IN TOWNSHIP 7 NORTH, RANGE 22 EAST, IN THE CITY OF MILWAUKEE, MILWAUKEE COUNTY, WISCONSIN, BOUNDED AND DESCRIBED AS FOLLOWS: COMMENCING AT THE NORTHWEST CORNER OF THE SOUTHEAST 1/4 OF SAID SECTION 31; THENCE SOUTH 00°54'47" EAST ALONG THE EAST LINE OF SOUTH 20TH STREET 337.89 FEET TO THE POINT OF BEGINNING; THENCE NORTH 88°29'19" EAST 188.00 FEET; THENCE SOUTH 44°02'26" EAST 82.00 FEET; THENCE SOUTH 21°31'55" EAST 80.00 FEET TO A POINT ON THE NORTH LINE OF WEST NATIONAL AVENUE; THENCE SOUTH 84°59'27" WEST ALONG SAID NORTH LINE OF WEST NATIONAL AVENUE 272.92 FEET TO A POINT ON THE EAST LINE OF SOUTH 20TH STREET; THENCE NORTH 00°54'47" WEST ALONG SAID EAST LINE OF SOUTH 20TH STREET 152.25 FEET TO THE POINT OF BEGINNING.

ENCROACHMENT TABLE

A	BLOCK WALL 0.40' OVER PROPERTY LINE
B	BLOCK WALL 0.70' OVER PROPERTY LINE
C	BUILDING 0.92' OVER PROPERTY LINE
D	BLOCK WALL 0.45' OVER PROPERTY LINE
E	CONCRETE PAVEMENT 1.38' ON PROPERTY LINE
F	CHAIN LINK FENCE 5.65' ON PROPERTY LINE
G	CHAIN LINK FENCE 2.53' ON PROPERTY LINE
H	CONCRETE PAVEMENT 0.61' ON PROPERTY LINE
I	BUILDING 2.22' ON PROPERTY LINE
J	BUILDING 1.98' ON PROPERTY LINE
K	CHAIN LINK FENCE 2.31' ON PROPERTY LINE
L	CHAIN LINK FENCE 2.19' ON PROPERTY LINE
M	TRANSFORMER PAD 0.92' ON PROPERTY LINE
N	TRANSFORMER PAD 0.72' ON PROPERTY LINE
O	METAL FENCE 17.75' ON PROPERTY LINE
P	ADJOINING PROPERTY ACCESS ENCROACHES

- INDICATES FOUND 1" IRON PIPE
- INDICATES SET 1" IRON PIPE
- ⊕ INDICATES FOUND CHISELED CROSS
- ⊙ SANITARY MANHOLE
- ⊙ SANITARY CLEANOUT OR VENT
- ⊙ M.I.S. MANHOLE
- ⊙ UNKNOWN MANHOLE
- ⊙ STORM MANHOLE
- ⊙ INLET (ROUND)
- ⊙ CURB INLET
- ⊙ STORM SEWER END SECTION
- ⊙ GAS VALVE
- ⊙ GAS METER
- ⊙ WATER VALVE
- ⊙ HYDRANT
- ⊙ WATER MANHOLE
- ⊙ WATER SERVICE CURB STOP
- ⊙ WELL HEAD
- ⊙ STAND PIPE

LEGEND

- ⊙ WALL INDICATOR VALVE
- ⊙ POST INDICATOR VALVE
- ⊙ LIGHT POLE
- ⊙ SPOT/YARD LIGHT
- ⊙ UTILITY POLE
- ⊙ GUY POLE
- ⊙ GUY WIRE
- ⊙ ELECTRIC MANHOLE
- ⊙ ELECTRIC PEDESTAL
- ⊙ ELECTRIC METER
- ⊙ TELEPHONE MANHOLE
- ⊙ TELEPHONE PEDESTAL
- ⊙ CABLE PEDESTAL
- ⊙ CONTROL BOX
- ⊙ FIBER OPTIC SIGN
- ⊙ TRAFFIC LIGHT
- ⊙ COMMUNICATION MANHOLE
- ⊙ BOLLARD
- ⊙ SOIL BORING/MONITORING WELL
- ⊙ WATER SURFACE

TITLE COMMITMENT

This survey was prepared based on First American Title Insurance Company Commitment No. NCS-820071-MKE, effective date of October 7, 2016 which lists the following easements and/or restrictions from schedule B-11:

- 1, 2, 3 & 5 visible evidence shown, if any.
- 4, 6, 7, 8, 9, 31, 32, 33, 34, 35, & 36 not survey related.
10. Declaration of Easement dated September 5, 1952 and recorded on September 6, 1952, in Volume 3058, Page 520, as Document No. 3138351. **Affects property by location, shown.**
11. Easement granted to Wisconsin Electric Power Company in instrument dated January 20, 1958 and recorded on February 4, 1958, in Volume 3785, Page 332, as Document No. 3636865. **Affects property by location, shown.**
12. Easement granted to Wisconsin Electric Power Company and Wisconsin Telephone Company in instrument dated January 13, 1961 and recorded on January 26, 1961, in Volume 4109, Page 79, as Document No. 3859057. **Affects property by location, shown.**
13. Easement granted to Wisconsin Electric Power Company and Wisconsin Telephone Company in instrument recorded on September 21, 1961, in Volume 4177, Page 441, as Document No. 3905997. **Affects property by location, cannot be plotted from the record document.**
14. Easement granted to Wisconsin Electric Power Company and Wisconsin Telephone Company in instrument recorded on September 28, 1961, in Volume 4179, Page 659, as Document No. 3907524. **Affects property by location, cannot be plotted from the record document.**
15. Easement granted to Wisconsin Electric Power Company and Wisconsin Telephone Company in instrument recorded on September 28, 1961, in Volume 4180, Page 1, as Document No. 3907525. **Affects property by location, cannot be plotted from the record document.**
16. Easement granted to Wisconsin Electric Power Company and Wisconsin Telephone Company in instrument recorded on June 21, 1963, in Reel 121, Image 751, as Document No. 4031848. **Affects property by location, cannot be plotted from the record document.**
17. Easement granted to Wisconsin Electric Power Company and Wisconsin Telephone Company in instrument recorded on July 30, 1963, in Reel 137, Image 785, as Document No. 4041006. **Affects property by location, cannot be plotted from the record document.**
18. Easement granted to Wisconsin Electric Power Company and Wisconsin Telephone Company in instrument recorded on November 15, 1963, in Reel 163, Image 2069, as Document No. 4065802. **Affects property by location, cannot be plotted from the record document.**
19. Easement granted to Wisconsin Electric Power Company in instrument recorded on November 15, 1963, in Reel 163, Image 2071, as Document No. 4065803. **Affects property by location, cannot be plotted from the record document.**
20. Easement granted to Wisconsin Electric Power Company and Wisconsin Telephone Company in instrument recorded on November 15, 1963, in Reel 163, Image 2074, as Document No. 4065804. **Affects property by location, cannot be plotted from the record document.**
21. Easement granted to Wisconsin Electric Power Company and Wisconsin Telephone Company in instrument recorded on April 14, 1967, in Reel 354, Image 1126, as Document No. 4311366. **Affects property by location, shown.**
22. Restriction set forth on Certified Survey Map No. 4352 recorded on July 14, 1983, in Reel 1547, Image 1100, as Document No. 5634309, reciting as follows:
In consideration of the approval of the map by the Common Council and in accordance with Chapter 9 of the Milwaukee Code, the undersigned agrees: That all utility lines to provide electric power and telephone services and cable television or communications systems lines or cables to all parcels in the certified survey map shall be installed underground in easements provided therefore, where feasible. **Affects property by location, general in nature, cannot be plotted.**
23. Easement granted to Wisconsin Electric Power Company in instrument recorded on March 27, 1987, in Reel 2062, Image 1313, as Document No. 6037249. **Affects property by location, shown.**
24. Terms, provisions, conditions and restrictions set forth in Redevelopment Plan for the Clarke Square Mega Mart Redevelopment Project recorded on July 31, 1996, in Reel 3596, Image 82, as Document No. 7107731. **Affects property by location, general in nature, cannot be plotted.**
25. Zoning regulations set forth in Certified Copy of Ordinance (File No. 951634), recorded on August 27, 1996, in Reel 3871, Image 783, as Document No. 7259029. **Affects property by location, general in nature, cannot be plotted.**
26. Easement granted to Wisconsin Electric Power Company in instrument recorded on April 16, 1996, in Reel 3778, Image 1206, as Document No. 7205080. **Affects property by location, shown.**
27. Terms, provisions and conditions set forth in Development Agreement dated as of June 20, 1995 as set forth in Memorandum of Development Agreement dated October 22, 1997 and recorded on March 24, 1998, in Reel 4271, Image 2064, as Document No. 7506717. **Affects property by location, general in nature, cannot be plotted.**
28. Distribution Easement Underground Joint granted to Wisconsin Electric Power Company and Wisconsin Bell, Inc., d/b/a Ameritech Wisconsin in instrument recorded on July 8, 1998, in Reel 4345, Image 547, as Document No. 7560325. **Does not affect property by location, shown.**
29. Rights of Jondex Corp. under Lease dated as of March 31, 2000 as set forth in Memorandum of Lease and Option recorded on April 7, 2000, as Document No. 7893631. **Affects property by location, shown.**
30. Notice of Contamination to Property dated August 22, 2001 and recorded on August 23, 2001, as Document No. 8123047. **Does not affect property by location, not shown.**
31. Restrictions set forth in Declaration of Restrictive Covenant dated April 25, 2003 and recorded on April 28, 2003, as Document No. 8513623. **Affects property by location, general in nature, cannot be plotted.**

PARKING SPACES

There are 434 regular parking spaces and 12 handicap space marked on this site.

LAND AREA

The Land Area of the subject property is 330,647 square feet or 7.5905 acres.

FLOOD NOTE

According to the flood insurance rate map of the County of Milwaukee, Community Panel No. 55079C0089E, effective date of September 26, 2008, this site falls in Zone X (Areas determined to be outside the 0.2% annual chance floodplain).

NOTE:

Site was snow covered at time of survey.

VICINITY MAP



TO: DeMichele Company
NDC LLC, a Wisconsin limited liability company
First American Title Insurance Company

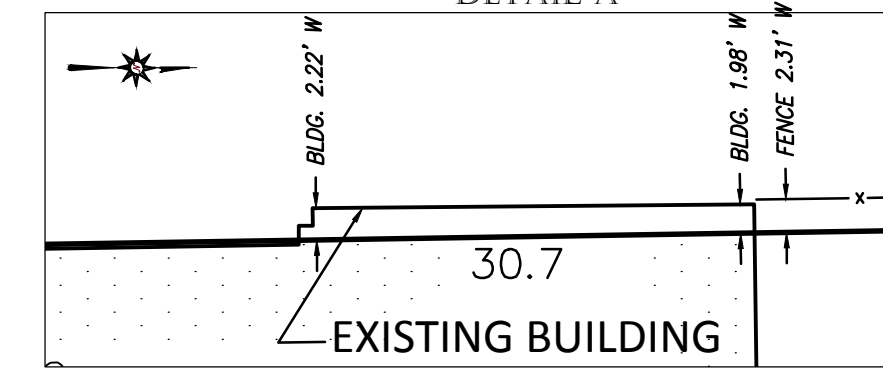
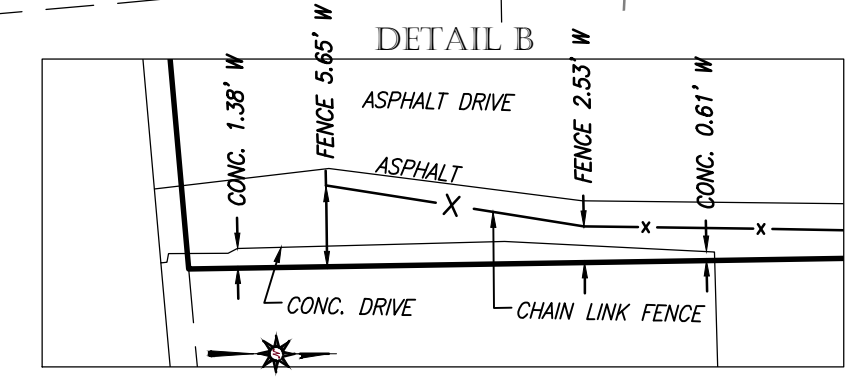
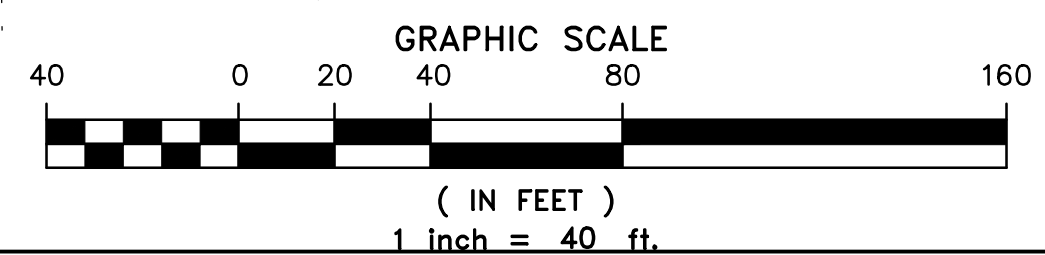
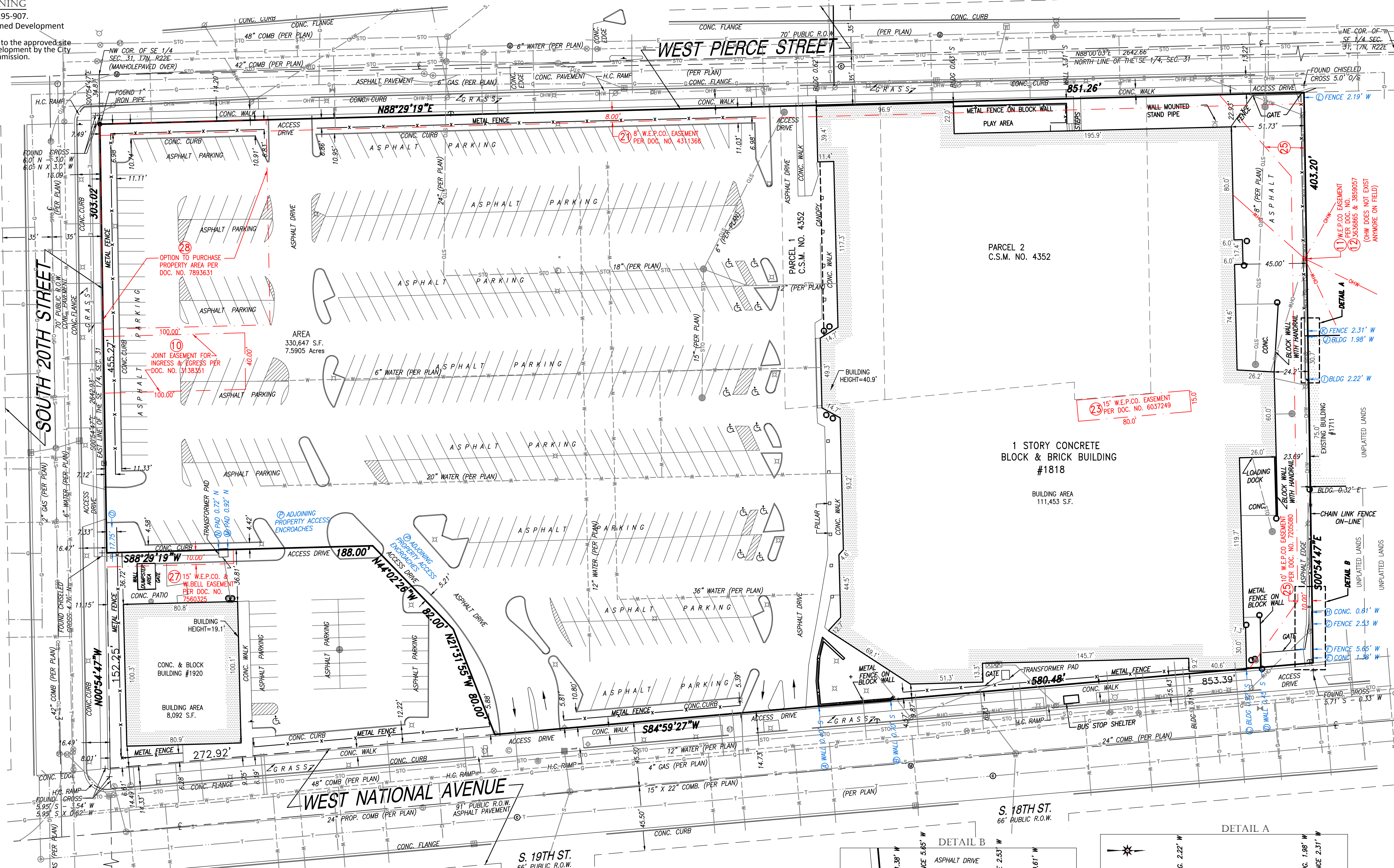
This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2016 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1, 2, 3, 4, 7(a), 7(c), 8, 9, 11, 20, and 22 of Table A thereof. The field work was completed on December 30, 2016.

Date of Map: January 04, 2017.



Donald C. Chaput
Professional Land Surveyor
Registration Number S-1316

Drawing No. 2487-far





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PROJECT:
**CRISTO REY
 JESUIT HIGH
 SCHOOL**

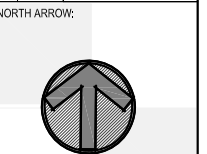
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 1818 WEST
 NATIONAL AVE.
 MILWAUKEE, WI
 53204

CLIENT:

RELEASE:

REVISIONS:

#	DATE	DESCRIPTION



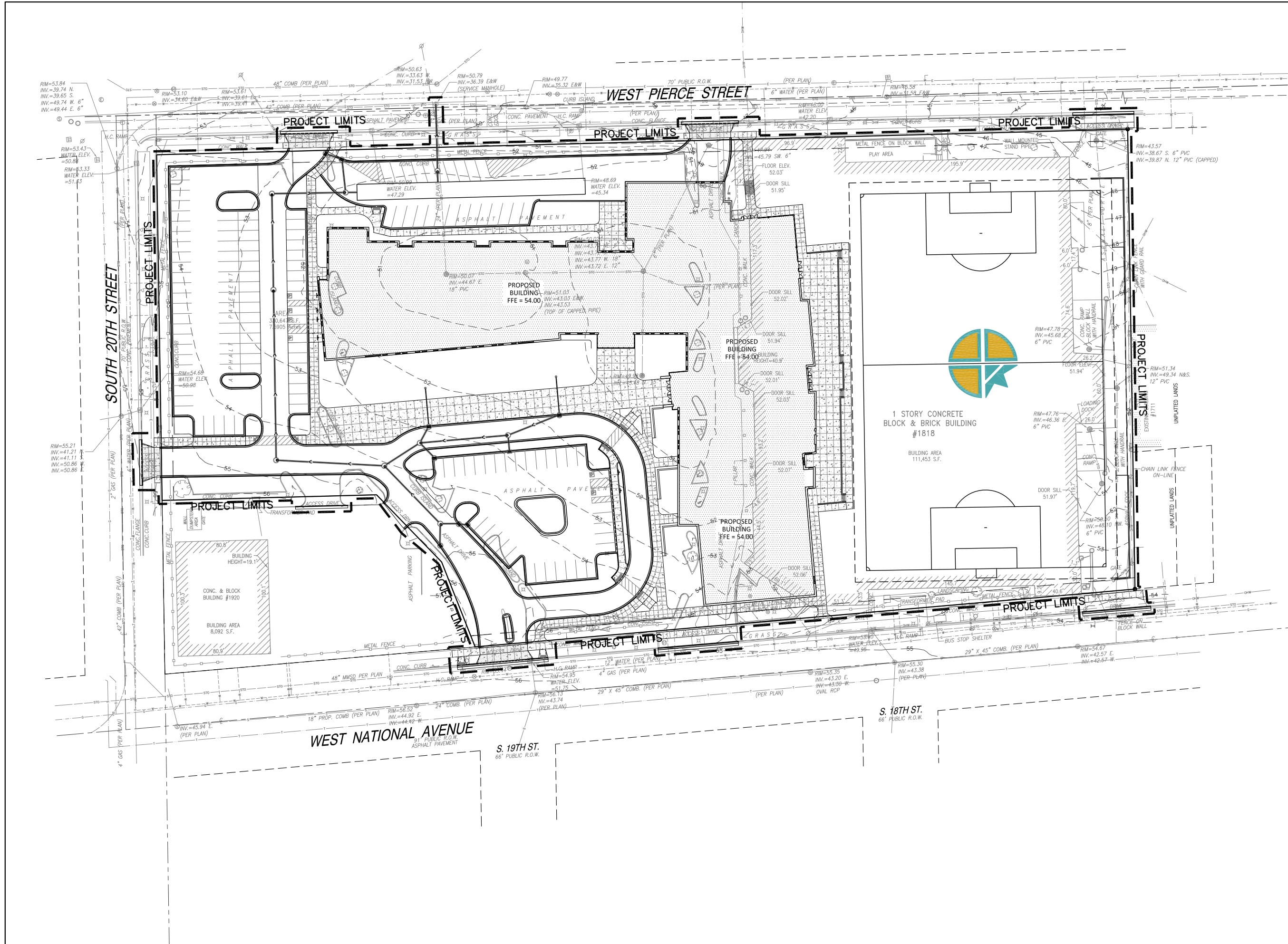
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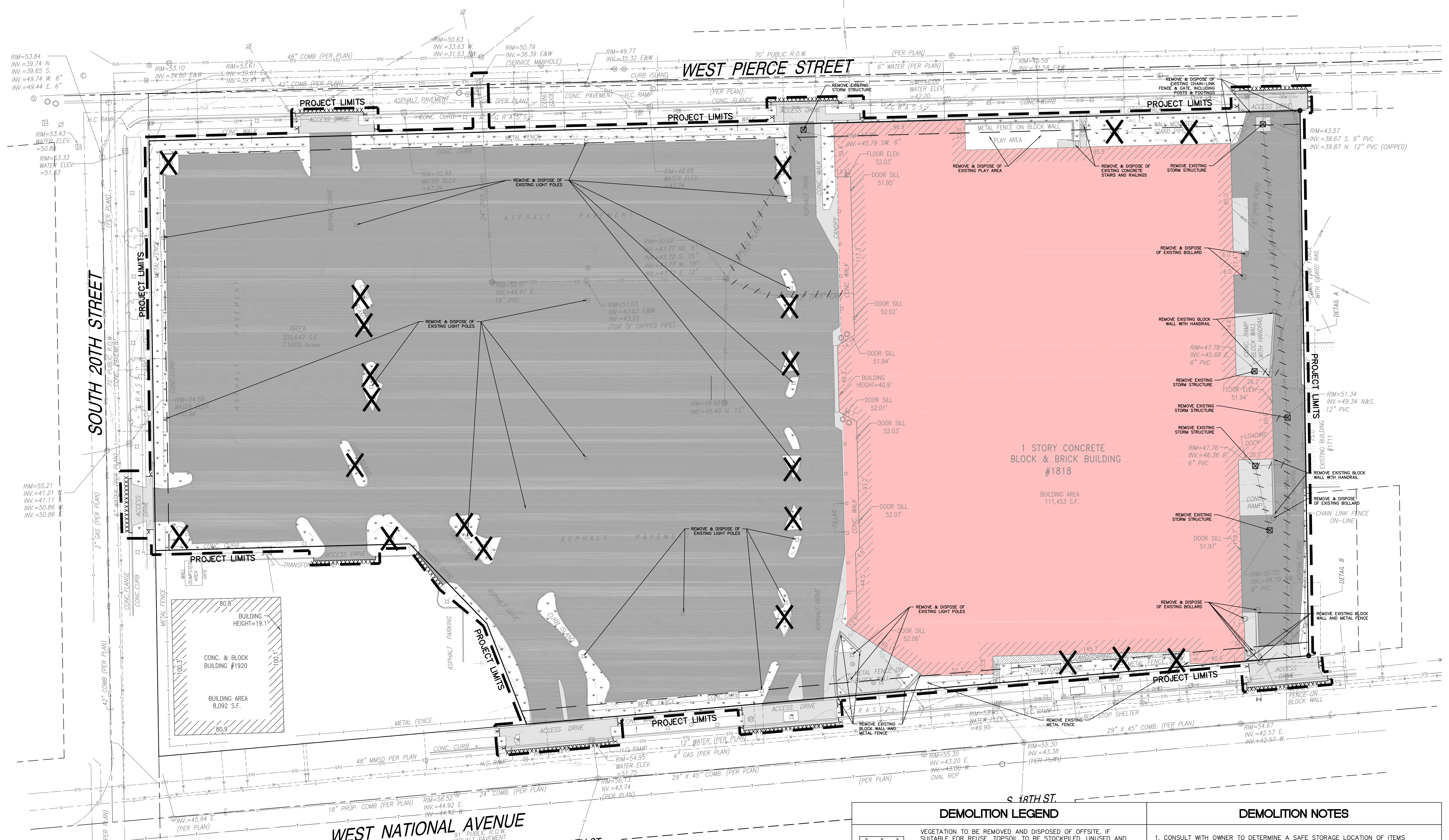
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SHEET:
DETAILED SITE MAP

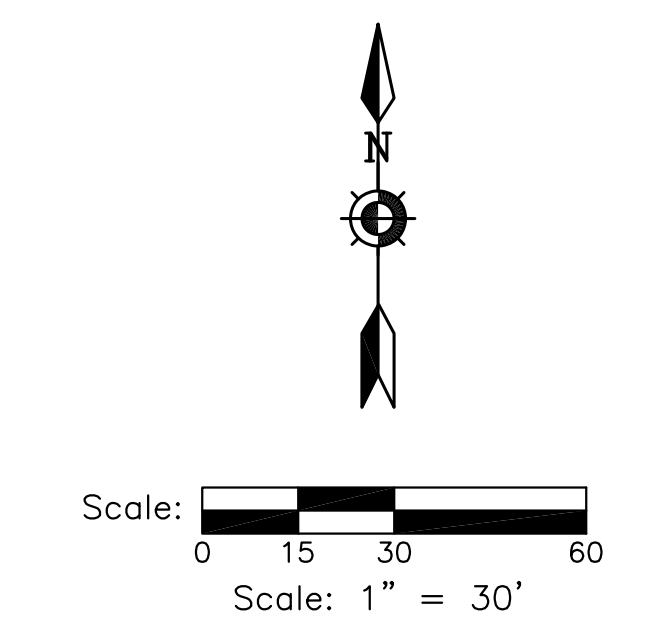
PROJECT MANAGER: TP
 PROJECT NUMBER: 180231.01
 DATE: 02/04/2019

SHEET NUMBER:
2






DEMOLITION LEGEND	DEMOLITION NOTES
<p>VEGETATION TO BE REMOVED AND DISPOSED OF OFFSITE. IF SUITABLE FOR REUSE, TOPSOIL TO BE STOCKPILED, UNUSED AND UNSUITABLE TOPSOIL TO BE REMOVED OFFSITE. TOPSOIL THICKNESS MAY VARY. REFER TO GEOTECHNICAL REPORT OR FIELD VERIFY DEPTH IF GEOTECHNICAL REPORT NOT AVAILABLE.</p>	<p>1. CONSULT WITH OWNER TO DETERMINE A SAFE STORAGE LOCATION OF ITEMS SPECIFICALLY CALLED OUT TO BE SALVAGED FOR OWNER REUSE. EXERCISE CARE DURING REMOVAL AND TRANSPORT TO PREVENT DAMAGE.</p> <p>2. THE UNDERGROUND AND OVERHEAD UTILITY INFORMATION AS SHOWN HEREON IS BASED, IN PART, UPON INFORMATION FURNISHED BY UTILITY COMPANIES, LOCAL MUNICIPALITY, PROPERTY OWNER, AND DIGGERS HOTLINE. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, ITS ACCURACY AND COMPLETENESS CANNOT BE GUARANTEED NOR CERTIFIED TO.</p> <p>3. GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS SHALL APPLY FOR AND OBTAIN ALL THEIR REQUIRED PERMITS AND APPROVALS PRIOR TO THE START OF THEIR WORK. CONSULT WITH AND OBTAIN FROM ENGINEER COPIES OF ENGINEERING DESIGN APPROVAL PERMITS, INCLUDING BUT NOT LIMITED TO WDRN, STATE OR LOCAL PLUMBING, WDOT, COUNTY, AND STORM WATER MANAGEMENT.</p> <p>4. GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS SHALL CONTACT DIGGER'S HOTLINE TO ALLOW THEM SUFFICIENT TIME TO LOCATE EXISTING UTILITIES PRIOR TO COMMENCEMENT OF WORK.</p> <p>5. GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS ARE RESPONSIBLE FOR COORDINATING THEIR WORK WITH ALL OTHER CONTRACTORS.</p> <p>6. GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS ARE RESPONSIBLE FOR VERIFYING OWNERSHIP OF AND COORDINATING THE DEMOLITION AND/OR RELOCATION OF ALL EXISTING UTILITIES FROM EXISTING BUILDINGS AND WITHIN THE PROJECT LIMITS, INCLUDING BUT NOT LIMITED TO ELECTRICAL/FIBER OPTIC/TELEPHONE/CABLE/GAS/WATER/SANITARY/STORM. DEMOLITION OF THIS UTILITY WORK MUST BE IN ACCORDANCE WITH ALL STATE, FEDERAL, & LOCAL REGULATIONS.</p> <p>7. FOR ALL WORK, GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS ARE RESPONSIBLE FOR REVIEWING BID DOCUMENTS, VERIFYING THE VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES WITHIN THE PROJECT LIMITS, AND INCLUDE IN THEIR CONTRACT THE RELOCATION OF SAID UTILITIES (NOTED OR NOT ON THE BID DOCUMENTS) AS NECESSARY TO PROVIDE PROPER DEPTH/CLEARANCE PER UTILITY OWNER'S REQUIREMENTS.</p> <p>8. ALL EXISTING UTILITY LINES SHALL BE FULLY PROTECTED AND SUPPORTED/SHORED DURING CONSTRUCTION TO KEEP LINES IN SERVICE AND TO PREVENT DAMAGE. WHERE NEW UNDERGROUND UTILITIES ARE TO BE INSTALLED BELOW EXISTING UTILITIES, SUPPORT EXISTING LINES IN PLACE. PROVIDE RESTRICTION OF BOTH HORIZONTAL AND VERTICAL MOVEMENT OF UTILITY. AFTER NEW UTILITIES HAVE BEEN INSTALLED, EXISTING UTILITIES SHALL BE BACKFILLED IN SAME MANNER AS THAT SPECIFIED FOR NEW UTILITIES. FLOWABLE CONCRETE FILL DIRECTLY BENEATH EXISTING UTILITIES WHERE SPECIFIED COMPACTION REQUIREMENTS CANNOT BE ACHIEVED.</p>
<p>ASPHALT PAVEMENT AND BASE MATERIAL TO BE REMOVED TO SUB-BASE AND DISPOSED OF OFFSITE. CONCRETE AND BASE THICKNESS MAY VARY. REFER TO GEOTECHNICAL REPORT.</p>	
<p>CONCRETE AND BASE MATERIAL TO BE REMOVED TO SUB-BASE AND DISPOSED OF OFFSITE. CONCRETE AND BASE THICKNESS MAY VARY. REFER TO GEOTECHNICAL REPORT.</p>	
<p>CLEAR AND GRUB VEGETATION, REMOVE ROOTS AND STUMPS. REMOVE AND DISPOSE OF OFFSITE.</p>	
<p>SAWCUT FULL DEPTH</p>	
<p>TREES AND STUMPS TO BE REMOVED</p>	
<p>DENOTES UTILITIES TO BE ABANDONED AND REMOVED.</p>	
<p>KNOWN UTILITY AND POTENTIAL CONFLICT EXIST</p>	
<p>EXISTING BUILDING AND FOUNDATION TO BE RAZED. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.</p>	
<p>DENOTES EXISTING STORM INLETS TO BE REMOVED. ALL STORM SEWER INLETS SHALL HAVE INLET PROTECTION UNTIL REMOVED. SEE DETAIL 4/C2.1</p>	



DIGGERS HOTLINE
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 www.DiggersHotline.com



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 829 S. 1st Street
 Milwaukee, Wisconsin 53204
 T. 414.226.0200

Sheboygan
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KAPUR & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 1711 N. PORT WASHINGTON ROAD
 PORT WASHINGTON, WI 53150
 Phone: 414.331.1117
 Fax: 414.331.4117
 www.kapurengineers.com

Project Title:
 NEW BUILDING FOR:
CRISTO REY JESUIT HIGH SCHOOL
CRISTO REY - MILWAUKEE
 1818 WEST NATIONAL AVE. MILWAUKEE, WI
 53204

REVISIONS:

DATE	DESCRIPTION

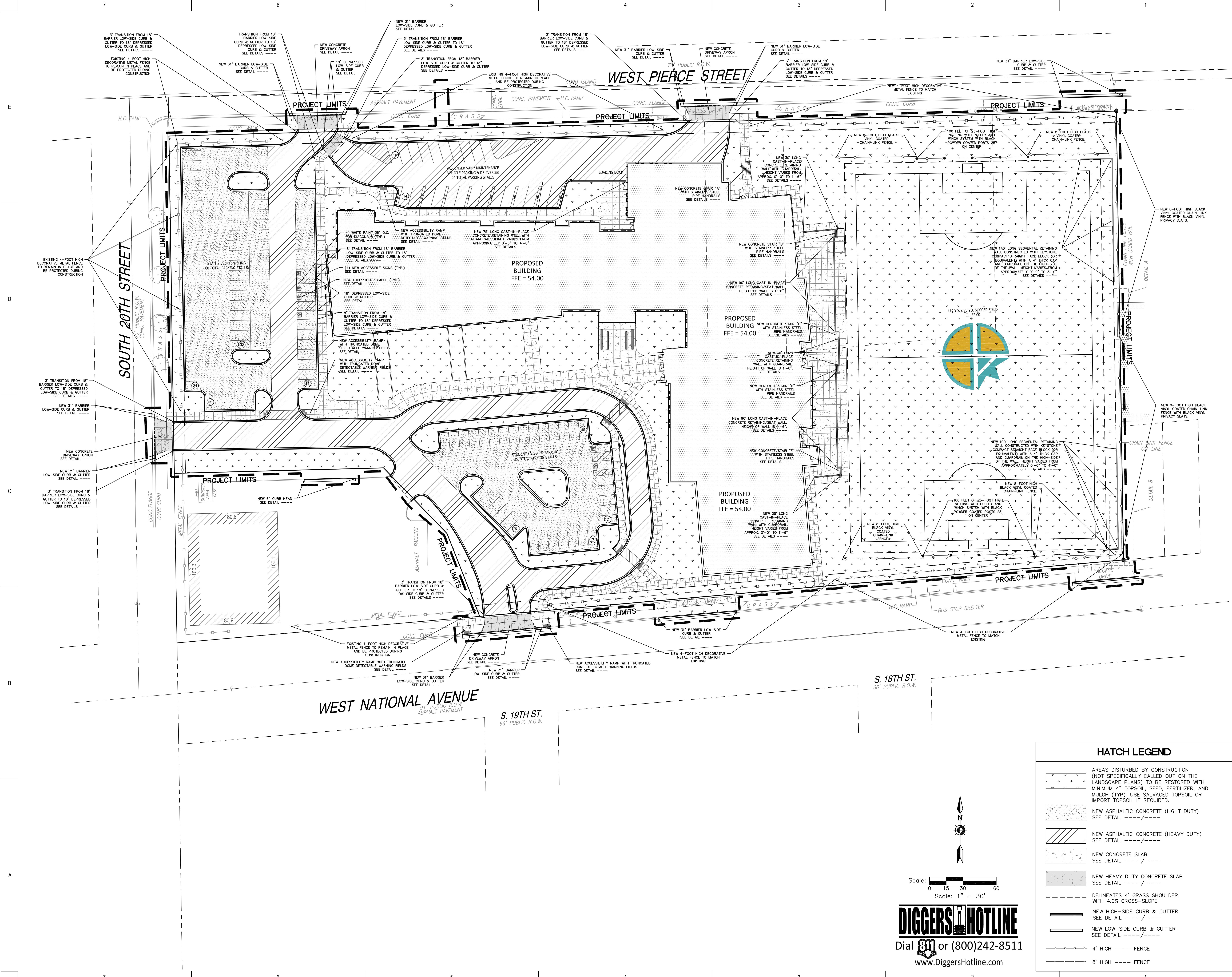
Project Number:
3367

Issued For:
50% PROGRESS SET

Sheet Title:
SITE DEMOLITION PLAN

Sheet Number:
C1.1

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HATCH LEGEND

	AREAS DISTURBED BY CONSTRUCTION (NOT SPECIFICALLY CALLED OUT ON THE LANDSCAPE PLANS) TO BE RESTORED WITH MINIMUM 4" TOPSOIL, SEED, FERTILIZER, AND MULCH (TYP.) USE SALVAGED TOPSOIL OR IMPORT TOPSOIL IF REQUIRED.
	NEW ASPHALTIC CONCRETE (LIGHT DUTY) SEE DETAIL
	NEW ASPHALTIC CONCRETE (HEAVY DUTY) SEE DETAIL
	NEW CONCRETE SLAB SEE DETAIL
	NEW HEAVY DUTY CONCRETE SLAB SEE DETAIL
	DELINEATES 4' GRASS SHOULDER WITH 4.0% CROSS-SLOPE
	NEW HIGH-SIDE CURB & GUTTER SEE DETAIL
	NEW LOW-SIDE CURB & GUTTER SEE DETAIL
	4' HIGH FENCE
	8' HIGH FENCE

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MILWAUKEE, WI 53216
PHONE: 414.331.1688 FAX: 414.331.4117
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Project Title:
NEW BUILDING FOR:
CRISTO REY JESUIT HIGH SCHOOL
CRISTO REY - MILWAUKEE
1818 WEST NATIONAL AVE. MILWAUKEE, WI 53204

REVISIONS:

DATE	DESCRIPTION

Project Number:
3367

Issued For:
50% PROGRESS SET

Sheet Title:
SITE LAYOUT PLAN

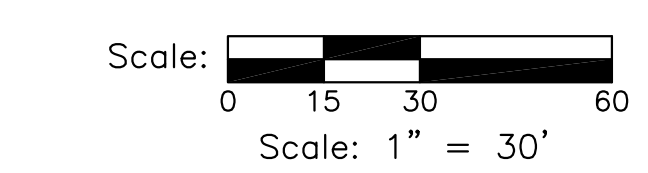
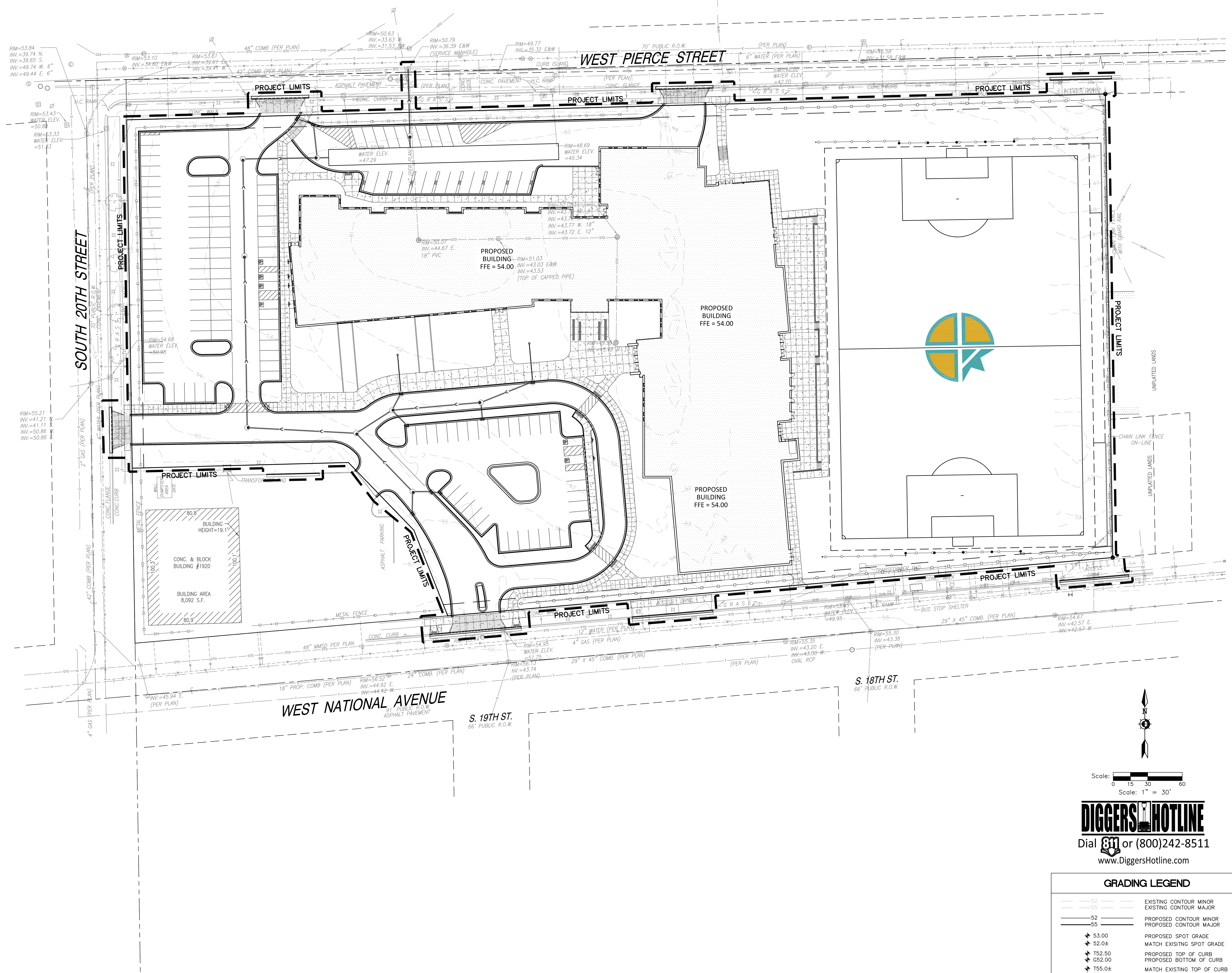
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C1.2

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Scale:

Scale: 1" = 30'

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GRADING LEGEND	
--- 52 ---	EXISTING CONTOUR MINOR
--- 55 ---	EXISTING CONTOUR MAJOR
--- 52 ---	PROPOSED CONTOUR MINOR
--- 55 ---	PROPOSED CONTOUR MAJOR
◆ 53.00	PROPOSED SPOT GRADE
◆ 52.0±	MATCH EXISTING SPOT GRADE
◆ T52.50	PROPOSED TOP OF CURB
◆ G52.00	PROPOSED BOTTOM OF CURB
◆ T55.0±	MATCH EXISTING TOP OF CURB
◆ G54.4±	MATCH EXISTING BOTTOM OF CURB

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CRISTO REY JESUIT HIGH SCHOOL
CRISTO REY - MILWAUKEE
1818 WEST NATIONAL AVE. MILWAUKEE, WI
53204**

REVISIONS:

DATE	DESCRIPTION

Project Number:

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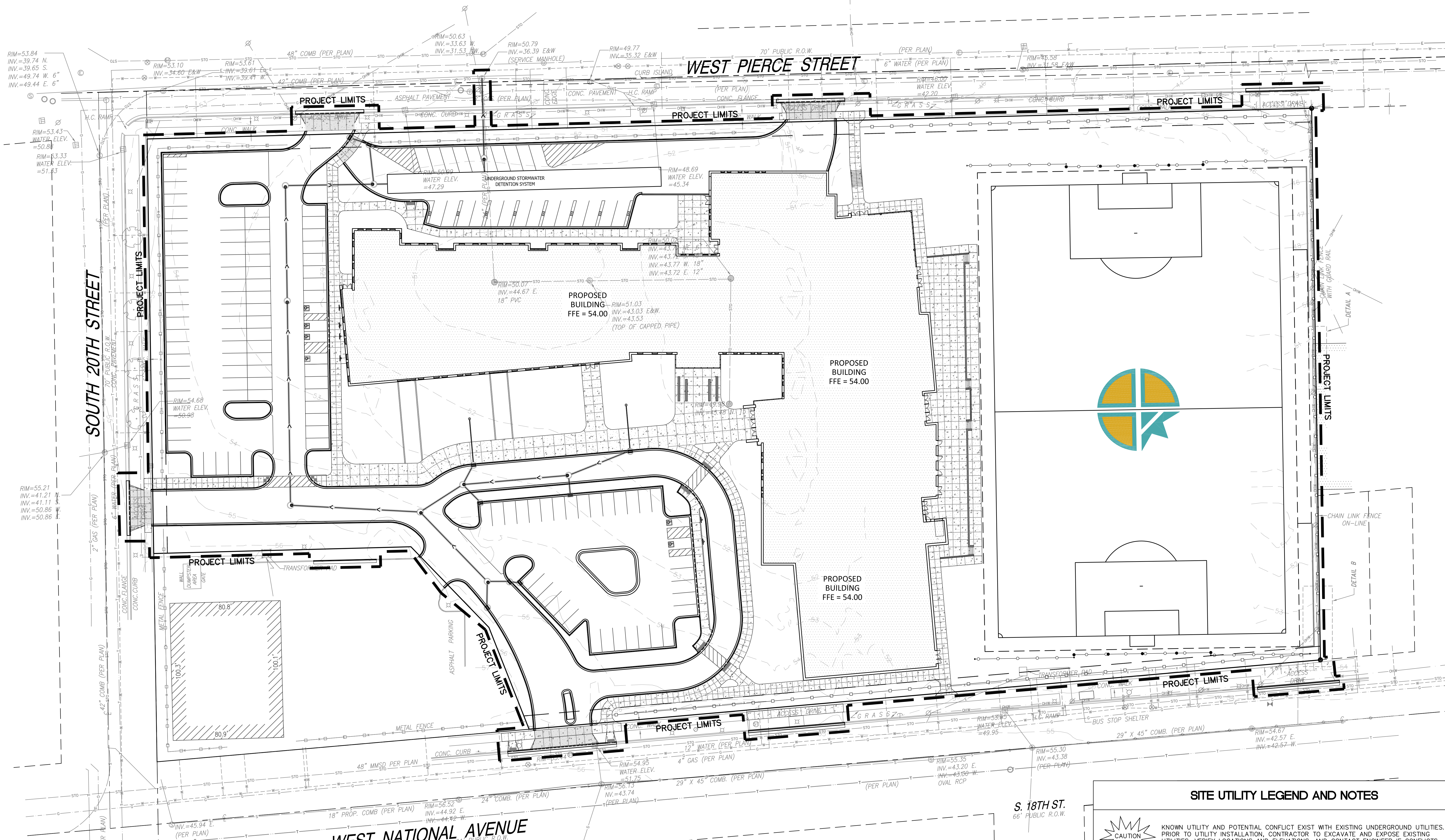
Sheet Title:

SITE GRADING PLAN

Sheet Number:

C1.4

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SITE UTILITY LEGEND AND NOTES

CAUTION KNOWN UTILITY AND POTENTIAL CONFLICT EXIST WITH EXISTING UNDERGROUND UTILITIES. PRIOR TO UTILITY INSTALLATION, CONTRACTOR TO EXCAVATE AND EXPOSE EXISTING UTILITIES, VERIFY LOCATIONS AND ELEVATIONS, AND CONTACT ENGINEER IF CONFLICTS EXIST WITH PROPOSED CONSTRUCTION AND EXISTING UNDERGROUND UTILITIES.

- PER PROJECT SPECIFICATIONS AND THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, THE POINT OF COMMENCEMENT FOR THE LAYING OF SEWER PIPE SHALL BE AT THE LOWEST POINT IN THE PROPOSED SEWER LINE. THE PIPE SHALL BE LAID WITH THE BELL END OF THE BELL AND SPIGOT PIPE, OR WITH THE RECEIVING GROOVE END OF THE TONGUE AND GROOVE PIPE, POINTING UPGRADE. WHEN A NEW SEWER IS TO BE CONNECTED TO AN EXISTING SEWER NOT TERMINATING IN A MANHOLE, THE CONTRACTOR SHALL UNCOVER THE EXISTING SEWER TO ALLOW ANY ADJUSTMENTS IN LINE AND GRADE TO BE MADE BEFORE PIPE IS LAID.
- THE UNDERGROUND AND OVERHEAD UTILITY INFORMATION AS SHOWN HEREON IS BASED, IN PART, UPON INFORMATION FURNISHED BY UTILITY COMPANIES, LOCAL MUNICIPALITY, PROPERTY OWNER, AND DIGGERS HOTLINE. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, ITS ACCURACY AND COMPLETENESS CANNOT BE GUARANTEED NOR CERTIFIED TO.
- GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS SHALL APPLY FOR AND OBTAIN ALL THEIR REQUIRED PERMITS AND APPROVALS PRIOR TO THE START OF THEIR WORK. CONSULT WITH AND OBTAIN FROM ENGINEER COPIES OF ENGINEERING DESIGN APPROVAL PERMITS, INCLUDING BUT NOT LIMITED TO WDR, STATE OR LOCAL PLUMBING, WDOT, COUNTY, AND STORM WATER MANAGEMENT.
- GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS SHALL CONTACT DIGGER'S HOTLINE TO ALLOW THEM SUFFICIENT TIME TO LOCATE EXISTING UTILITIES PRIOR TO COMMENCEMENT OF WORK.
- GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS ARE RESPONSIBLE FOR COORDINATING THEIR WORK WITH ALL OTHER CONTRACTORS.
- GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS ARE RESPONSIBLE FOR VERIFYING OWNERSHIP OF AND COORDINATING THE DEMOLITION AND/OR RELOCATION OF ALL EXISTING UTILITIES FROM EXISTING BUILDINGS AND WITHIN THE PROJECT LIMITS, INCLUDING BUT NOT LIMITED TO ELECTRICAL/FIBER OPTIC/TELEPHONE/CABLE/GAS/WATER/SANITARY/STORM. DEMOLITION OF THIS UTILITY WORK MUST BE IN ACCORDANCE WITH ALL STATE, FEDERAL, & LOCAL REGULATIONS.
- FOR ALL WORK, GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS ARE RESPONSIBLE FOR REVIEWING BID DOCUMENTS, VERIFYING THE VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES WITHIN THE PROJECT LIMITS, AND INCLUDE IN THEIR CONTRACT THE RELOCATION OF SAID UTILITIES (NOTED OR NOT ON THE BID DOCUMENTS) AS NECESSARY TO PROVIDE PROPER DEPTH/CLEARANCE PER UTILITY OWNER'S REQUIREMENTS.
- ALL EXISTING UTILITY LINES SHALL BE FULLY PROTECTED AND SUPPORTED/SHORED DURING CONSTRUCTION TO KEEP LINES IN SERVICE AND TO PREVENT DAMAGE. WHERE NEW UNDERGROUND UTILITIES ARE TO BE INSTALLED BELOW EXISTING UTILITIES, SUPPORT EXISTING LINES IN PLACE. PROVIDE EXISTING OF BOTH HORIZONTAL AND VERTICAL MOVEMENT OF UTILITY. AFTER NEW UTILITIES HAVE BEEN INSTALLED, EXISTING UTILITIES SHALL BE BACKFILLED IN SAME MANNER AS THAT SPECIFIED FOR NEW UTILITIES. PROVIDE FLOWABLE CONCRETE FILL DIRECTLY BENEATH EXISTING UTILITIES WHERE SPECIFIED COMPACTION REQUIREMENTS CANNOT BE ACHIEVED.

Scale: 1" = 30'

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1818 WEST NATIONAL AVE. MILWAUKEE, WI
53204

REVISIONS:

DATE	DESCRIPTION

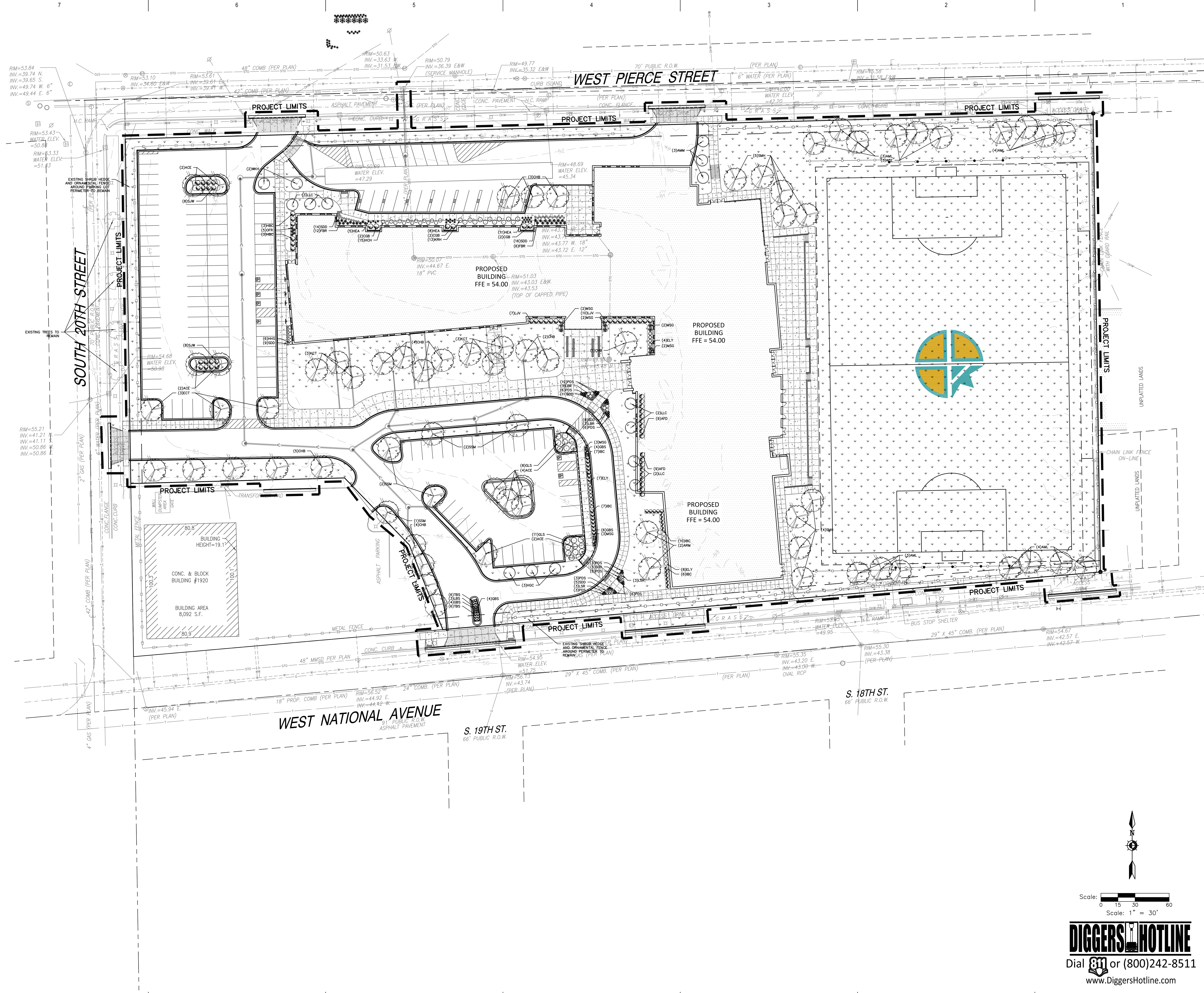
Project Number:
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Sheet Title:
SITE UTILITY PLAN

Sheet Number:
C1.5

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Project Title:
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 53204**

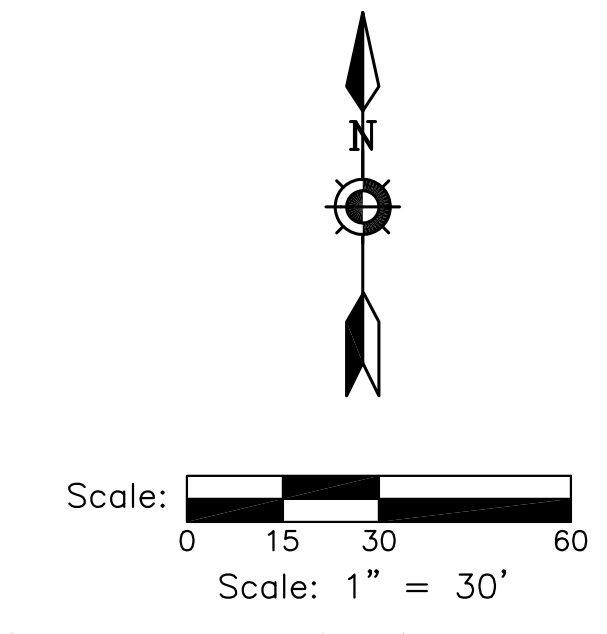
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DATE	DESCRIPTION

Project Number:
3367
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Sheet Title:
**SITE LANDSCAPE
 PLAN**

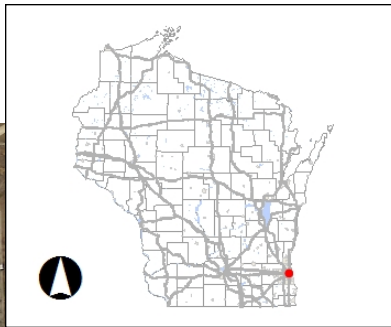
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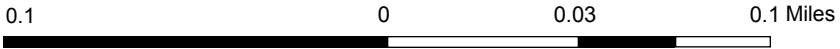
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Surface Water Data Viewer Map



- Legend**
- ◆ Wetland Identifications and Confirmations
 - Wetland Class Points**
 - ▲ Dammed pond
 - ◻ Excavated pond
 - ◻ Filled excavated pond
 - ▲ Filled/draind wetland
 - Wetland too small to delineate
 - /// Filled Points
 - Wetland Class Areas**
 - ◻ Wetland
 - ◻ Upland
 - ▨ Filled Areas
 - Wetland Class Points**
 - ▲ Dammed pond
 - ◻ Excavated pond
 - ◻ Filled excavated pond
 - ▲ Filled/draind wetland
 - Wetland too small to delineate
 - /// Filled Points
 - Wetland Class Areas**
 - ◻ Wetland
 - ◻ Upland
 - ▨ Filled Areas
 - ✳ NRCS Wetspots
 - ▨ Maximum Extent Wetland Indicators
 - ▨ Minimum Extent Wetland Indicators
 - Municipality
 - ▨ State Boundaries
 - ▨ County Boundaries
 - Major Roads**
 - Interstate Highway
 - State Highway



NAD_1983_HARN_Wisconsin_TM

1: 1,980

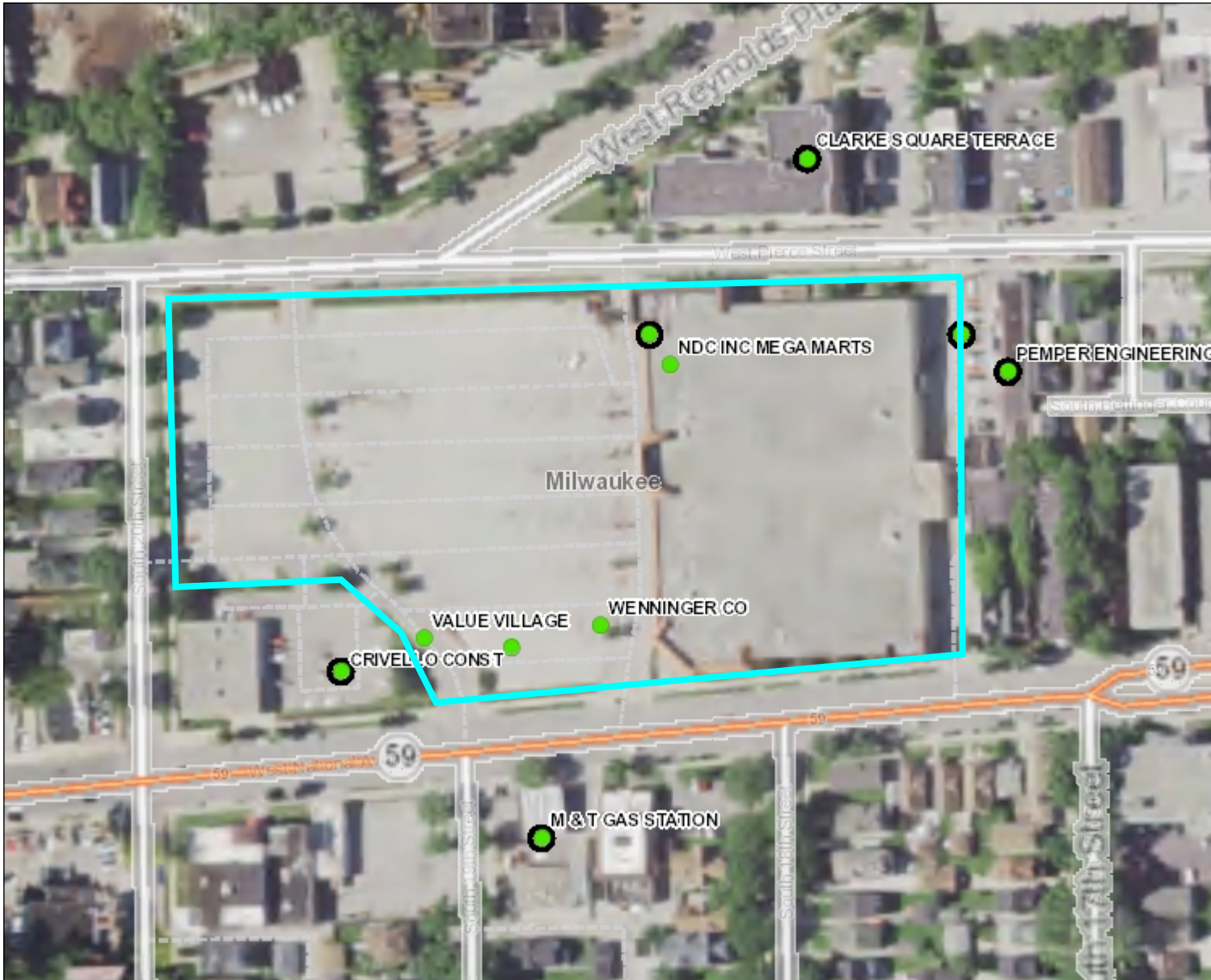
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Notes

FIGURE 3



RR Sites Map



Legend

- Open Site
- Closed Site
- Continuing Obligations Apply
- Facility-wide Site

0.1 0 0.03 0.1 Miles

NAD_1983_HARN_Wisconsin_TM

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1: 1,980



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Note: Not all sites are mapped.

Notes

FIGURE 4

PROJECT:
**CRISTO REY
JESUIT HIGH
SCHOOL**

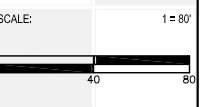
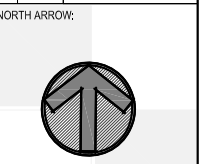
LOCATION:
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NATIONAL AVE.
MILWAUKEE, WI
53204**

CLIENT:

RELEASE:

REVISIONS:

#	DATE	DESCRIPTION

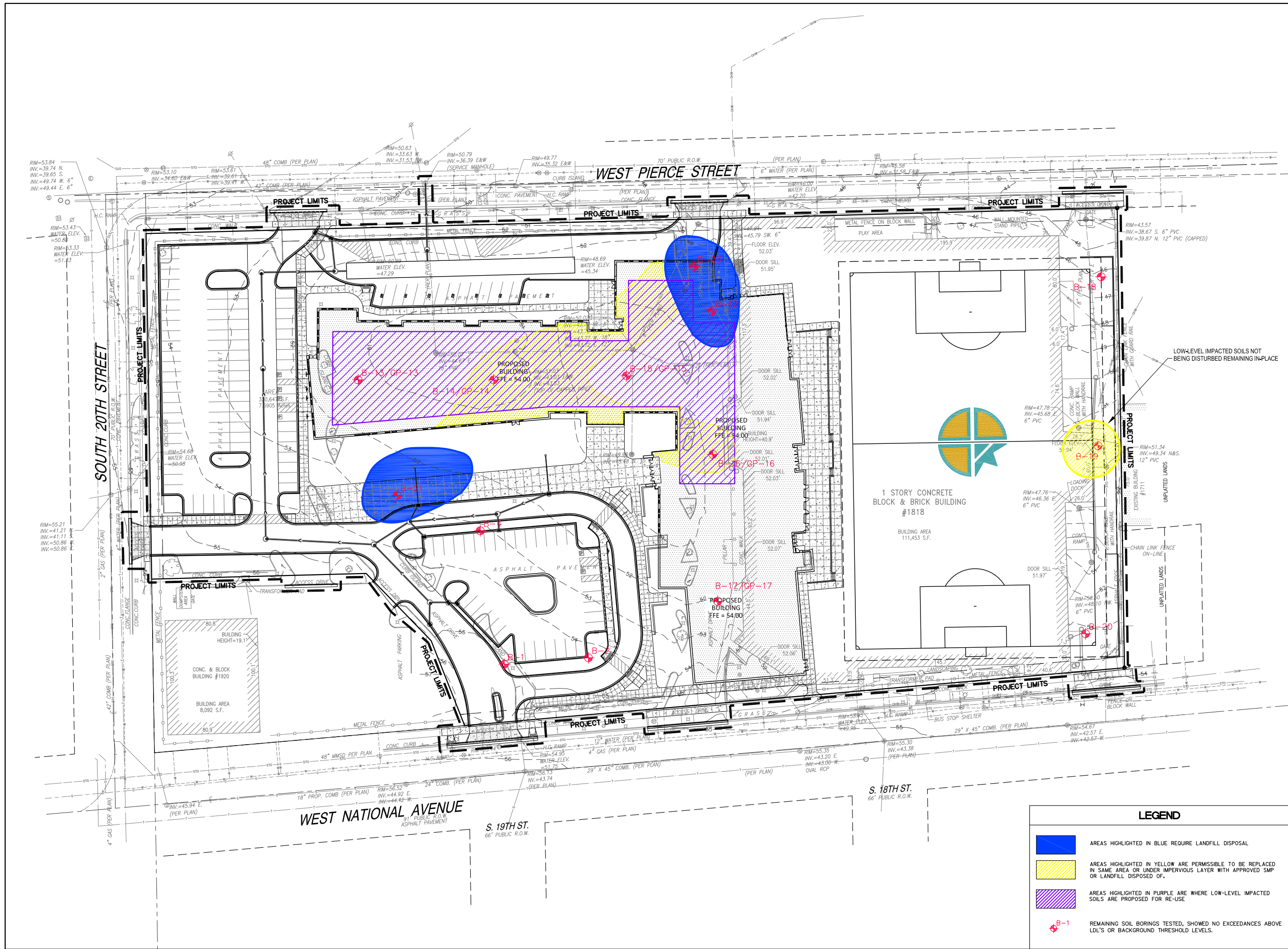


SEAL:





SHEET:
**SOIL DISPOSAL /
RELOCATION MAP**

PROJECT MANAGER: TP
PROJECT NUMBER: 180231.01
DATE: 01/29/2019

SHEET NUMBER:
5



LEGEND

-  AREAS HIGHLIGHTED IN BLUE REQUIRE LANDFILL DISPOSAL
-  AREAS HIGHLIGHTED IN YELLOW ARE PERMISSIBLE TO BE REPLACED IN SAME AREA OR UNDER IMPERVIOUS LAYER WITH APPROVED SMP OR LANDFILL DISPOSED OF.
-  AREAS HIGHLIGHTED IN PURPLE ARE WHERE LOW-LEVEL IMPACTED SOILS ARE PROPOSED FOR RE-USE
-  B-1 REMAINING SOIL BORINGS TESTED, SHOWED NO EXCEEDANCES ABOVE LDL'S OR BACKGROUND THRESHOLD LEVELS.

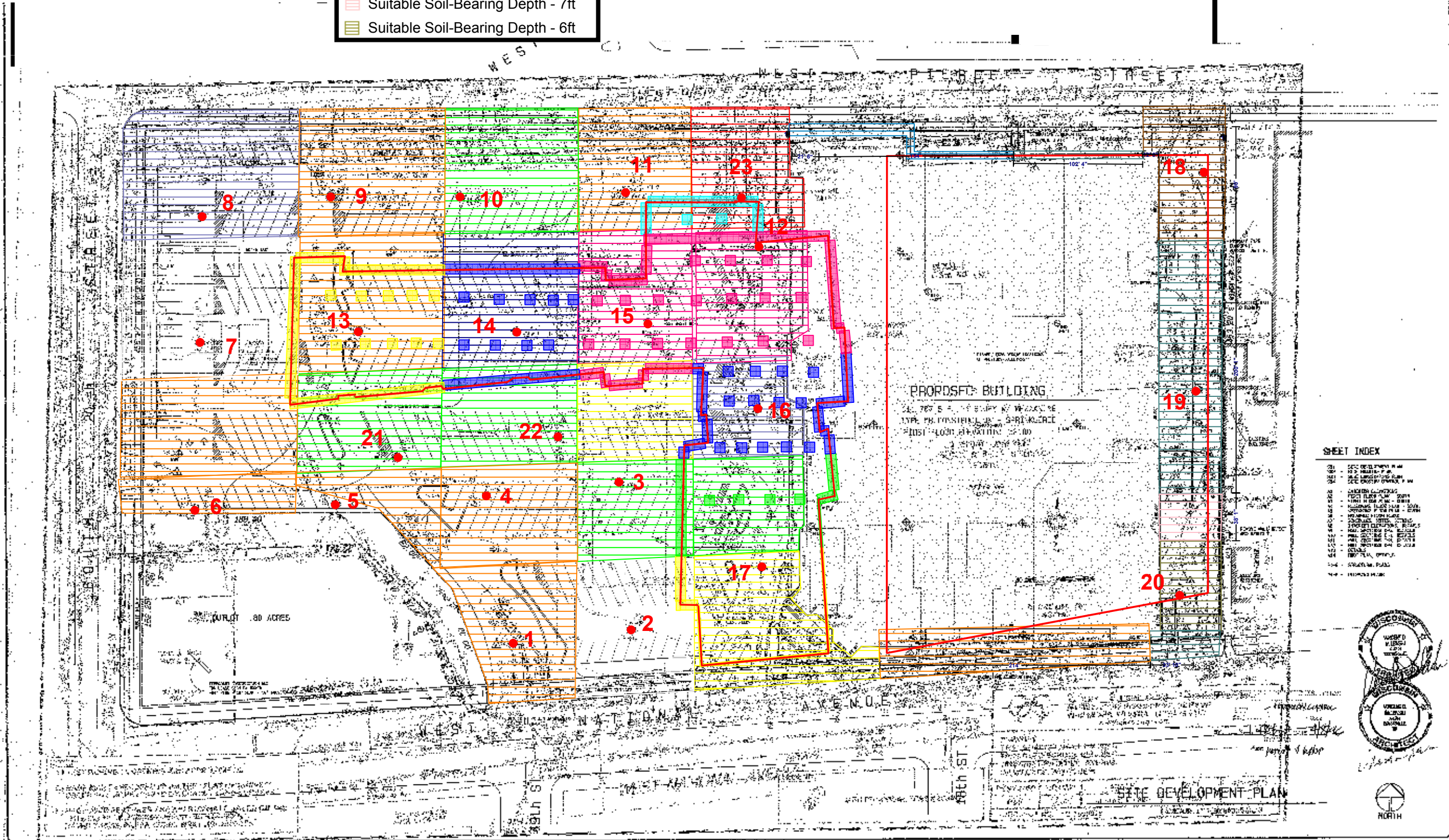
Cristo Rey High School Soils Analysis at Proposed Building

- 30 - Footing Pad Excavation - 3' depth
- 31 - Footings Excavation - 4' depth
- 32 - Footings Excavation - 3' depth
- 33 - Footing Pad Excavation - 4' depth
- 34 - Footing Pad Excavation - 5' depth
- 35 - Footing Pad Excavation - 4.5' depth
- 36 - Footing Pad Excavation

- Suitable Soil-Bearing Depth - 2ft
- Suitable Soil-Bearing Depth - 3ft
- Suitable Soil-Bearing Depth - 5ft
- Suitable Soil-Bearing Depth - 4ft
- Suitable Soil-Bearing Depth - 4.5ft
- Suitable Soil-Bearing Depth - 8ft
- Suitable Soil-Bearing Depth - 14ft
- Suitable Soil-Bearing Depth - 1ft
- Suitable Soil-Bearing Depth - 11ft
- Suitable Soil-Bearing Depth - 9ft
- Suitable Soil-Bearing Depth - 12ft
- Suitable Soil-Bearing Depth - 7ft
- Suitable Soil-Bearing Depth - 6ft

4 - Test Borings - 23 EA

- SITE PLAN NOTES**
1. ALL EXISTING UTILITIES SHOWN ARE BASED ON RECORD DRAWINGS AND FIELD SURVEY. VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION.
 2. ALL EXISTING UTILITIES SHALL BE DEEPENED TO A MINIMUM OF 48" BELOW FINISHED GRADE.
 3. ALL EXISTING UTILITIES SHALL BE PROTECTED BY A MINIMUM OF 18" OF CONCRETE OR 24" OF BRICK WITH A MINIMUM OF 18" OF SAND FILL.
 4. ALL EXISTING UTILITIES SHALL BE DEEPENED TO A MINIMUM OF 48" BELOW FINISHED GRADE.
 5. ALL EXISTING UTILITIES SHALL BE PROTECTED BY A MINIMUM OF 18" OF CONCRETE OR 24" OF BRICK WITH A MINIMUM OF 18" OF SAND FILL.
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 15. ALL EXISTING UTILITIES SHALL BE PROTECTED BY A MINIMUM OF 18" OF CONCRETE OR 24" OF BRICK WITH A MINIMUM OF 18" OF SAND FILL.



SHEET INDEX

SD 1	SOILS ANALYSIS
SD 2	FOUNDATION PLAN
SD 3	FOUNDATION PLAN
SD 4	FOUNDATION PLAN
SD 5	FOUNDATION PLAN
SD 6	FOUNDATION PLAN
SD 7	FOUNDATION PLAN
SD 8	FOUNDATION PLAN
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SD 18	FOUNDATION PLAN
SD 19	FOUNDATION PLAN
SD 20	FOUNDATION PLAN
SD 21	FOUNDATION PLAN
SD 22	FOUNDATION PLAN
SD 23	FOUNDATION PLAN

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TEL: 414.224.1111 FAX: 414.224.1112

PICK 'N SAVE - MEGA FOOD CENTER
20th STREET & NATIONAL AVE., MILWAUKEE, WI

DATE: 8-22-06
PROJECT: 9507
SHEET: SD 1





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PROJECT:
**CRISTO REY
 JESUIT HIGH
 SCHOOL**

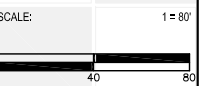
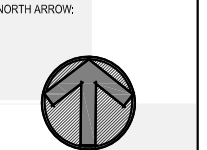
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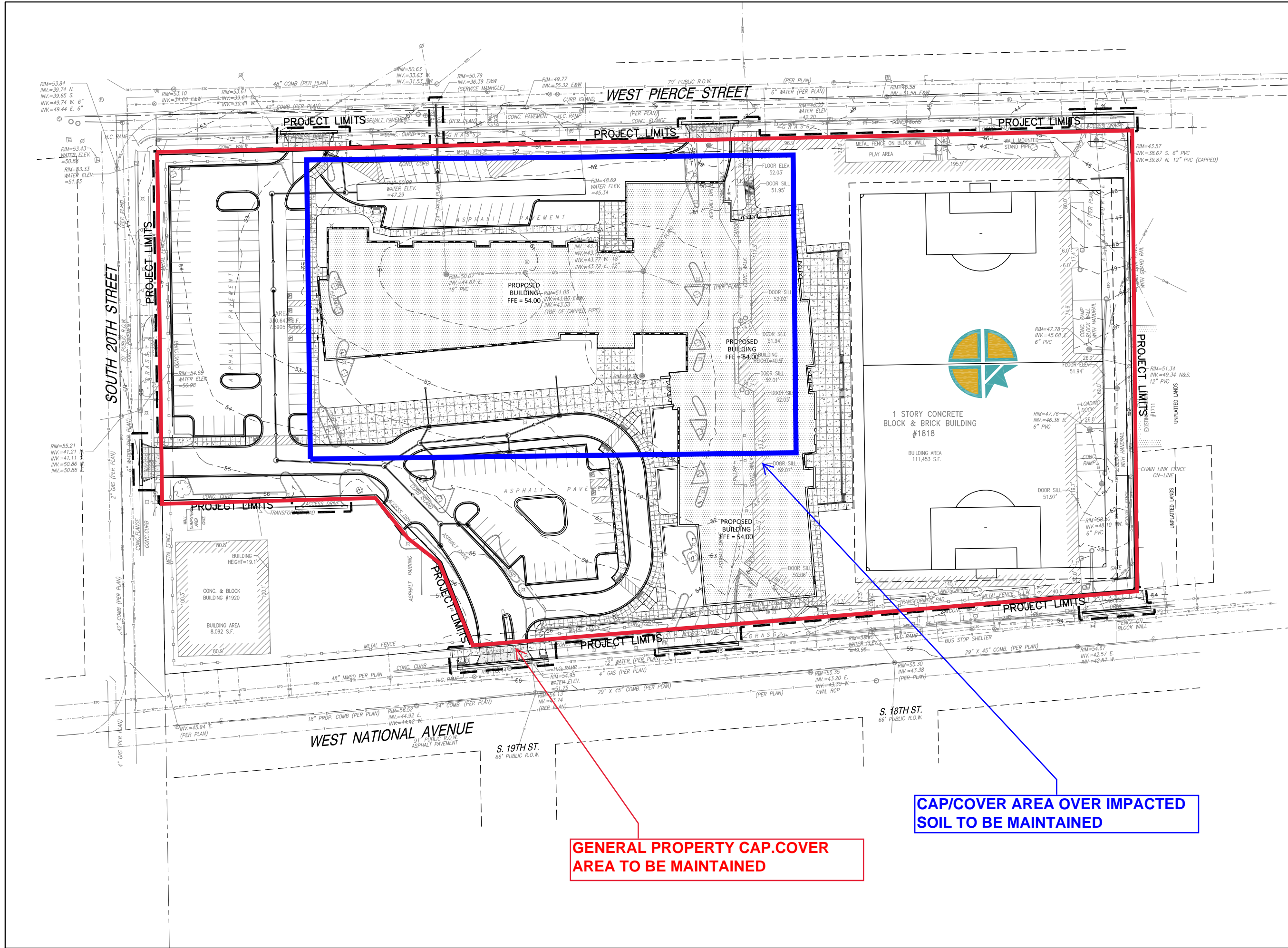


SEAL:

SHEET:
 DETAILED SITE MAP

PROJECT MANAGER: TP
 PROJECT NUMBER: 180231.01
 DATE: 02/04/2019

SHEET NUMBER:
7



Section 10 - Additional Attachments

The following documents are recommended for inclusion with a Wis. Admin. Code § NR 718.12 or a Wis. Admin. Code § 718.15 exemption request. Indicate which of these documents are applicable to this request by checking the boxes below. Submit copies of the indicated documents with this document.

- A table summarizing the analytical results of all soil/waste samples collected at the generating site or facility that meets the requirements of Wis. Admin. Code § 716.15(4)(e). Clearly indicate which of these samples were collected from material that is proposed to be managed.*
- The analytical package for all samples listed on the above table. The package should include the sample results, chain of custody, sampling methods, and QA/QC data.*
- A maintenance plan for any performance standard needed to address the material proposed to be managed. The plan should follow the format found in [DNR Form 4400-202, Attachment D](#).*
- A copy of the reclamation plan for the receiving site or facility if it is a nonmetallic mine. Confirm the plan allows for acceptance of contaminated soil by marking relevant plan sections.*
- Power of Attorney (if applicable, see Section 12).*
- Deed for the property receiving the contaminated soil and or waste. If a certified survey map or plat map is referenced by this deed then also include those documents. If a map is not referenced in the deed, provide a copy of a parcel map depicting the property boundaries.*

Sample Date: 09/18/2018																			
Parameter	Units	ch. NR 720 Direct Contact Industrial RCLs	ch. NR 720 Direct Contact Non-Industrial RCLs	ch. NR 720 Soil to Groundwater Pathway RCLs	EPA TCLP Limits	Background Threshold Value	B-1	B-2	B-4	B-12	B-12 TCLP	B-12	B-16	B-17	B-18	B-18	B-19	B-20	
							Soil Type:	GW	SW-SM	ML	ML	ML	GW	SW-SM	GW/CL	CL-ML	GW	ML	ML
							Saturated/Unsaturated:	U	U	U	U	U	U	U	U	U	U	U	U
Sample Depth:	(2-3.5)	(2-3.5)	(2-3.5)	(2-3.5)	(2-3.5)	(2-3.5)	(2-3.5)	(2-3.5)	(2-3.5)	(2-3.5)	(2-3.5)	(2-3.5)	(2-3.5)	(2-3.5)	(2-3.5)	(2-3.5)	(2-3.5)	(2-3.5)	
Polynuclear Aromatic Hydrocarbons (PAHs)																			
1-Methylnaphthalene	mg/kg	72.7	17.6				<0.0048	<0.0043	<0.0048	0.0149 J		<0.0048	<0.0048	<0.0045	<0.0043	<0.0045	0.0137 J	<0.0043	
2-Methylnaphthalene	mg/kg	3,010	239.0				<0.0060	<0.0053	<0.0060	0.0215		<0.0059	<0.0059	<0.0055	<0.0053	<0.0056	0.0209	<0.0053	
Acenaphthene	mg/kg	45,200	3,590				<0.0046	<0.0041	<0.0047	0.0045 J		<0.0046	<0.0046	<0.0043	<0.0041	0.0053 J	0.0127 J	<0.0041	
Acenaphthylene	mg/kg						<0.0039	<0.0035	<0.0040	0.0048 J		<0.0039	<0.0039	<0.0037	<0.0035	<0.0037	0.0054 J	<0.0035	
Anthracene	mg/kg	100,000	17,900	196.9492			<0.0068	<0.0061	<0.0069	0.0192 J		<0.0068	<0.0067	<0.0063	<0.0060	0.0121 J	0.0449	0.0079 J	
Benzo(a)anthracene	mg/kg	20.8	1.14				<0.0038	<0.0034	<0.0038	0.0827		<0.0037	<0.0037	0.0204	0.0198	0.0198	0.136	0.0261	
Benzo(a)pyrene	mg/kg	2.11	0.115	0.47			<0.0030	<0.0027	<0.0030	0.0846		<0.0030	<0.0030	0.0225	0.0225	0.0151	0.142	0.0265	
Benzo(b)fluoranthene	mg/kg	21.1	1.15	0.4793			<0.0034	<0.0030	<0.0034	0.166		<0.0033	<0.0033	0.0336	0.0301	0.0248	0.234	0.0414	
Benzo(g,h,i)perylene	mg/kg						<0.0024	<0.0022	<0.0024	0.0577		<0.0024	<0.0024	0.0129	0.0134	0.0070 J	0.0612	0.0105	
Benzo(k)fluoranthene	mg/kg	211	11.5				<0.0030	<0.0027	<0.0030	0.0462		<0.0030	<0.0030	0.0140	0.0138	0.0098	0.0774	0.0146	
Chrysene	mg/kg	2,110	115	0.1446			<0.0040	<0.0036	<0.0040	0.133		<0.0040	<0.0040	0.0277	0.0202	0.0269	0.173	0.0341	
Dibenz(a,h)anthracene	mg/kg	2.11	0.115				<0.0027	<0.0024	<0.0027	0.0208		<0.0026	<0.0026	0.0037 J	0.0033 J	<0.0025	0.0159	0.0028 J	
Fluoranthene	mg/kg	30,100	2,390	88.8778			<0.0062	<0.0055	<0.0063	0.171		<0.0062	<0.0062	0.0535	0.0376	0.0781	0.360	0.0609	
Fluorene	mg/kg	30,100	2,390	14.8299			<0.0049	<0.0044	<0.0050	<0.0047		<0.0049	<0.0049	<0.0046	<0.0044	0.0054 J	0.0113 J	<0.0044	
Indeno(1,2,3-cd)pyrene	mg/kg	21.1	1.15				<0.0026	<0.0023	<0.0026	0.0443		<0.0026	<0.0026	0.0102	0.0102	0.0059 J	0.0412	0.0074 J	
Naphthalene	mg/kg	26	5.2	0.66			<0.0100	<0.0090	0.0111 J	0.0297 J		<0.0100	<0.0099	<0.0093	<0.0089	<0.0094	<0.0096	<0.0090	
Phenanthrene	mg/kg						<0.0139	<0.0124	<0.0140	0.0799		<0.0138	<0.0138	<0.0129	<0.0123	0.0508	0.212	0.0326 J	
Pyrene	mg/kg	22,600	1,790	54.5455			<0.0054	<0.0048	<0.0054	0.122		<0.0053	<0.0053	0.0433	0.0318	0.0519	0.271	0.0469	
RCRA Metals																			
Arsenic	mg/kg	3.0	0.677	0.5484	5	8	[8.0]	[2.4 J]*	[4.3 J]*	[7.7]*		[6.4]*	[5.4]*	[4.0 J]*	[4.1 J]*	[4.9 J]*	[5.3 J]*	[5.9 J]*	
Barium	mg/kg	100,000	15,300	164.8	100	364	72.1	8.2	46.6	[180]*		57.6	52.3	11.7	14.7	45.2	12.9	8.9	
Cadmium	mg/kg	985	71.1	0.752	1	1	0.27 J	<0.14	0.17 J	0.65		0.20 J	0.20 J	<0.14	<0.27	<0.27	<0.29	<0.28	
Chromium	mg/kg			360,000	5	44	20.5	7.7	18.7	12.2		14.7	15.9	8.4	6.9	9.0	7.6	4.5	
Lead	mg/kg	800	400	27	5	52	10.3	3.4	9.1	[429]	2.9	8.0	7.9	3.8	4.1	5.2	1.9 J	7.0	
Mercury	mg/kg	3.13	3.13	0.208	0.2		<0.037	<0.036	<0.038	0.040 J		<0.037	<0.038	<0.035	<0.034	<0.039	<0.039	<0.034	
Selenium	mg/kg	5,840	391	0.52	1		<1.6	<1.4	<1.5	<1.5		<1.5	<1.4	<1.4	<2.7	<2.7	<2.8	<2.7	
Silver	mg/kg	391	5,110	0.85	5		<0.41	<0.36	<0.40	<0.39		<0.38	<0.37	<0.37	<0.70	<0.71	<0.74	<0.72	
Volatile Organic Compounds (VOCs)																			
1,2,4-Trichlorobenzene	mg/kg	113	24	0.41			<0.0476	<0.0476	<0.0476	<0.0476		<0.0476	<0.0476	<0.0476	<0.0476	<0.0476	<0.0476	<0.0476	
1,2,4-Trimethylbenzene	mg/kg	219	219	1.382			<0.0250	<0.0250	<0.0250	0.0354 J		<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	
1,2-Dichlorobenzene	mg/kg	376	376	1.2			<0.0250	<0.0250	<0.0250	0.332		<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	
1,2-Dichloroethane	mg/kg	3	0.652	0.0028			<0.0250	<0.0250	<0.0250	[0.0396]		[0.174]	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	
1,3,5-Trimethylbenzene	mg/kg	182	182	1.382			<0.0250	<0.0250	<0.0250	<0.0250		<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	
1,3-Dichlorobenzene	mg/kg	297	297	1.2			<0.0250	<0.0250	<0.0250	<0.0250		<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	
1,4-Dichlorobenzene	mg/kg	16.4	3.7	0.14			<0.0250	<0.0250	<0.0250	[0.306]		<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	
Chlorobenzene	mg/kg	761	370	0.14			<0.0250	<0.0250	<0.0250	[0.243]		<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	
Ethylbenzene	mg/kg	35.4	8.02	1.57			<0.0250	<0.0250	<0.0250	<0.0250		<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	
m&p-Xylene	mg/kg	260	260	3.96			<0.0500	<0.0500	<0.0500	0.0910 J		<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	
Methylene Chloride*	mg/kg	1,070	61	0.0026			[0.0703]	[0.0664]	[0.0658]	[0.0568]		[0.0660]	[0.0563]	[0.0675]	[0.0516]	[0.0638]	[0.0573]	[0.0440]	
Naphthalene	mg/kg	24.1	5.52	0.6582			<0.0400	<0.0400	<0.0400	0.430		<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	
n-Butylbenzene	mg/kg	108	108				<0.0250	<0.0250	<0.0250	<0.0250		<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	
o-Xylene	mg/kg	260	260	3.96			<0.0250	<0.0250	<0.0250	0.0571 J		<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	
Toluene	mg/kg	818	818	1.1072			<0.0250	<0.0250	<0.0250	<0.0250		<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	
Percent Moisture	%						16.2	6.1	16.7	12.1		15.5	15.3	9.9	5.5	10.3	12.5	6.1	
PID	ppmv						0.5	0.7	0.6	0.9		1	0.7	0.8	0.4	0.8	1.2	0.7	

Notes:
Only analytes with a detection in at least one sample are shown
(2-3) = sample depth in feet below ground surface
RCL = Residual Contaminant Level
PID - Photoionization Detector
ppmv = parts per million by volume in air
NR = Not Reported/Below Detection Limits
NA = Not Analyzed

Concentrations equal to or exceeding the NR 720 Soil RCL Industrial Direct Contact Standards are **bold red**
Concentrations equal to or exceeding the NR 720 Soil RCL Non-Industrial Direct Contact Standards are **bold blue**
Concentrations equal to or exceeding the NR 720 Soil RCL (via EPA RSLs) Soil to Groundwater Standards are in [**Brackets**]
J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
µg/kg = micrograms per kilogram
* = Above industrial standard but below background threshold value

Soil Classification:
GW = Well graded gravel, fine to coarse
SW = Well graded sand, fine to coarse
SM = Silty sand
ML = Silt
CL = Clay of low plasticity

Outlined samples are from materials proposed to be managed

Parameter	Units	ch. NR 720 Direct Contact Industrial RCLs	ch. NR 720 Direct Contact Non-Industrial RCLs	ch. NR 720 Soil to Groundwater Pathway RCLs	EPA TCLP Limits	Background Threshold Value	Sample Date: 09/18/2018 Continued					Sample Date: 12/05/2018							
							B-21	B-21 TCLP	B-21	B-23	B-23	GP-13	GP-14	GP-14	GP-15	GP-16	GP-16	GP-17	
							Soil Type:	GW	GW	SW	GW/SW	GW	SW	ML	ML	CL	CL	CL	SW
							Saturated/Unsaturated:	U	U	U	U	U	U	U	U	U	U	U	U
Sample Depth:	(2-3.5)	(2-3.5)	(14.5-16)	(.5-2)	(12-13.5)	(1-3)	(1-3)	(6-8)	(1-3)	(1-3)	(6-8)	(1-3)							
Polynuclear Aromatic Hydrocarbons (PAHs)																			
1-Methylnaphthalene	mg/kg	72.7	17.6				0.323		9.27	0.0377 J	<0.0049	<0.0049	0.058	<0.0048	<0.0048	<0.0047	<0.0049	<0.0046	
2-Methylnaphthalene	mg/kg	3,010	239.0				0.564		16.9	<0.0223	<0.0061	<0.0061	0.12	<0.0060	<0.0060	<0.0059	<0.0061	<0.0057	
Acenaphthene	mg/kg	45,200	3,590				0.538		0.884	0.185	<0.0047	<0.0047	0.025	0.017	<0.0046	<0.0046	<0.0047	<0.0044	
Acenaphthylene	mg/kg						0.0908 J		0.207 J	0.0340 J	<0.0040	<0.0040	0.0091 J	<0.0039	<0.0039	<0.0039	<0.0040	<0.0038	
Anthracene	mg/kg	100,000	17,900	196.9492			1.40		0.384 J	0.322	<0.0069	<0.0070	0.067	0.037	<0.0068	<0.0067	<0.0069	<0.0065	
Benzo(a)anthracene	mg/kg	20.8	1.14				2.09		<0.0939	0.729	0.0056 J	<0.0039	0.25	0.074	<0.0038	<0.0037	<0.0039	<0.0036	
Benzo(a)pyrene	mg/kg	2.11	0.115	0.47			[2.19]		<0.0744	[0.744]	<0.0030	<0.0031	0.3	0.087	<0.0030	<0.0030	<0.0031	0.0042 J	
Benzo(b)fluoranthene	mg/kg	21.1	1.15	0.4793			[2.74]		<0.0836	[0.905]	<0.0034	<0.0035	0.38	0.082	<0.0034	<0.0033	<0.0034	0.0045 J	
Benzo(g,h,i)perylene	mg/kg						1.56		<0.0602	0.420	<0.0025	<0.0025	0.22	0.059	<0.0024	<0.0024	<0.0025	0.0045 J	
Benzo(k)fluoranthene	mg/kg	211	11.5				1.23		<0.0743	0.425	<0.0030	<0.0031	0.27	0.073	<0.0030	<0.0030	<0.0030	0.0049 J	
Chrysene	mg/kg	2,110	115	0.1446			[2.41]		<0.0999	[0.827]	<0.0041	<0.0041	[0.30]	0.080	<0.0040	<0.0040	<0.0041	0.0067 J	
Dibenz(a,h)anthracene	mg/kg	2.11	0.115				0.306		<0.0662	0.111	<0.0027	<0.0027	0.062	0.016	<0.0027	<0.0026	<0.0027	<0.0025	
Fluoranthene	mg/kg	30,100	2,390	88.8778			6.77		<0.154	1.63	0.0066 J	<0.0064	0.65	0.22	<0.0062	<0.0061	<0.0063	0.0071 J	
Fluorene	mg/kg	30,100	2,390	14.8299			0.756		0.996	0.0262 J	<0.0050	<0.0051	0.016	0.013 J	<0.0049	<0.0049	<0.0050	<0.0047	
Indeno(1,2,3-cd)pyrene	mg/kg	21.1	1.15				1.19		<0.0651	0.369	<0.0027	<0.0027	0.19	0.048	<0.0026	<0.0026	<0.0027	<0.0025	
Naphthalene	mg/kg	26	5.2	0.66			[1.09]		[3.51]	<0.0376	<0.0102	<0.010	0.060	<0.010	<0.010	<0.0099	<0.010	<0.0096	
Phenanthrene	mg/kg						4.11		3.26	0.576	<0.0141	<0.014	0.24	0.089	<0.014	<0.014	<0.014	<0.013	
Pyrene	mg/kg	22,600	1,790	54.5455			5.08		0.175 J	1.22	0.0058 J	<0.0055	0.41	0.17	<0.0054	<0.0053	<0.0055	0.0064 J	
RCRA Metals																			
Arsenic	mg/kg	3.0	0.677	0.5484	5	8	[9.1]		[6.4] *	[5.2] *	[4.8] *	[4.0] *	[4.7] *	[6.1] *	[4.2] *	[4.4] *	[4.4] *	[3.1] *	
Barium	mg/kg	100,000	15,300	164.8	100	364	[660]		61.9	66.8	75.2	38.3	41.3	64.6	60.6	44.0	63.2	18.9	
Cadmium	mg/kg	985	71.1	0.752	1	1	[104]	0.28	0.39 J	0.36 J	0.25 J	<0.16	<0.15	<0.15	<0.15	<0.15	<0.16	<0.15	
Chromium	mg/kg			360,000	5	44	214		16.6	18.2	20.7	13.5	12.7	14.7	20.4	13.7	17.7	8.9	
Lead	mg/kg	800	400	27	5	52	[8,250]	4.1	17.9	[50.3]	11.7	6.4	13.8	7.3	9.0	6.6	8.0	4.3	
Mercury	mg/kg	3.13	3.13	0.208	0.2		[0.22]		<0.036	0.069 J	<0.037	0.014 J	0.016 J	0.020 J	0.017 J	0.013 J	0.016 J	<0.011	
Selenium	mg/kg	5,840	391	0.52	1		[3.9]		<1.5	<1.4	<1.4	<1.6	<1.5	<1.5	<1.5	<1.5	<1.6	<1.5	
Silver	mg/kg	391	5,110	0.85	5		[1.1]		<0.40	<0.37	<0.38	<0.41	<0.38	<0.39	<0.38	<0.39	<0.41	<0.39	
Volatile Organic Compounds (VOCs)																			
1,2,4-Trichlorobenzene	mg/kg	113	24	0.41			0.102 J		<0.0476	<0.0476	<0.0476	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	
1,2,4-Trimethylbenzene	mg/kg	219	219	1.382			0.0773		<0.0250	<0.0250	<0.0250	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	
1,2-Dichlorobenzene	mg/kg	376	376	1.2			[1.29]		<0.0250	<0.0250	<0.0250	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	
1,2-Dichloroethane	mg/kg	3	0.652	0.0028			<0.0250		<0.0250	<0.0250	[0.115]	<0.025	<0.025	<0.025	<0.025	<0.025	[0.22]	<0.025	
1,3,5-Trimethylbenzene	mg/kg	182	182	1.382			0.0444 J		<0.0250	<0.0250	<0.0250	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	
1,3-Dichlorobenzene	mg/kg	297	297	1.2			0.0884		<0.0250	<0.0250	<0.0250	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	
1,4-Dichlorobenzene	mg/kg	16.4	3.7	0.14			[1.17]		<0.0250	<0.0250	<0.0250	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	
Chlorobenzene	mg/kg	761	370	0.14			[1.43]		<0.0250	<0.0250	<0.0250	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	
Ethylbenzene	mg/kg	35.4	8.02	1.57			0.130		<0.0250	<0.0250	<0.0250	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	
m&p-Xylene	mg/kg	260	260	3.96			0.254		<0.0500	<0.0500	<0.0500	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	
Methylene Chloride*	mg/kg	1,070	61	0.0026			[0.0601]		[0.0498]	[0.0641]	[0.0597]	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	
Naphthalene	mg/kg	24.1	5.52	0.6582			[1.14]		0.106 J	<0.0400	<0.0400	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	
n-Butylbenzene	mg/kg	108	108				0.0406 J		<0.0250	<0.0250	<0.0250	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	
o-Xylene	mg/kg	260	260	3.96			0.134		<0.0250	<0.0250	<0.0250	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	
Toluene	mg/kg	818	818	1.1072			0.136		<0.0250	<0.0250	<0.0250	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	
Percent Moisture	%						13.3		15.5	10.4	17.4	18.1	11.4	16.4	16.4	15.1	17.8	12.4	
PID	ppmv						9.4		51.4	1	0.6	0.5	0.5	0.3	0.5	0.4	0.4	0.4	

Notes:
Only analytes with a detection in at least one sample are shown
(2-3) = sample depth in feet below ground surface
RCL = Residual Contaminant Level
PID - Photoionization Detector
ppmv = parts per million by volume in air
NR = Not Reported/Below Detection Limits
NA = Not Analyzed

Concentrations equal to or exceeding the NR 720 Soil RCL Industrial Direct Contact Standards are
Concentrations equal to or exceeding the NR 720 Soil RCL Non-Industrial Direct Contact Standard
Concentrations equal to or exceeding the NR 720 Soil RCL (via EPA RSLs) Soil to Groundwater S
J = Estimated concentration above the adjusted method detection limit and below the adjusted rep
µg/kg = micrograms per kilogram
* = Above industrial standard but below background threshold value

Outlined samples are from materials proposed to be managed

October 19, 2018

Travis Peterson
Kapur & Associates, Inc.
7711 N. Port Washington Road
Milwaukee, WI 53217

RE: Project: 18.0231.01 CRISTO REY
Pace Project No.: 40176305

Dear Travis Peterson:

Enclosed are the analytical results for sample(s) received by the laboratory on September 21, 2018. 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,



Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Kapur Environmental, Kapur & Associates, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

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SAMPLE SUMMARY

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40176305001	B-1 (2-3.5)	Solid	09/18/18 09:00	09/21/18 15:10
40176305002	B-2 (2-3.5)	Solid	09/18/18 09:30	09/21/18 15:10
40176305003	B-4 (2-3.5)	Solid	09/18/18 10:00	09/21/18 15:10
40176305004	B-12 (2-3.5)	Solid	09/18/18 10:30	09/21/18 15:10
40176305005	B-12 (9.5-11)	Solid	09/18/18 10:45	09/21/18 15:10
40176305006	B-16 (2-3.5)	Solid	09/18/18 11:00	09/21/18 15:10
40176305007	B-17 (6"-2.5)	Solid	09/18/18 11:30	09/21/18 15:10
40176305008	B-18 (6"-2)	Solid	09/18/18 12:00	09/21/18 15:10
40176305009	B-18 (9.5-11)	Solid	09/18/18 12:15	09/21/18 15:10
40176305010	B-19 (6"-3.5)	Solid	09/18/18 12:30	09/21/18 15:10
40176305011	B-20 (6"-3.5)	Solid	09/18/18 13:00	09/21/18 15:10
40176305012	B-21 (2-3.5)	Solid	09/18/18 13:30	09/21/18 15:10
40176305013	B-21 (14.5-16)	Solid	09/18/18 13:45	09/21/18 15:10
40176305014	B-23 (6"-2)	Solid	09/18/18 14:00	09/21/18 15:10
40176305015	B-23 (12-13.5)	Solid	09/18/18 14:45	09/21/18 15:10

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40176305001	B-1 (2-3.5)	EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	JXM	1	PASI-G
40176305002	B-2 (2-3.5)	EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	JXM	1	PASI-G
40176305003	B-4 (2-3.5)	EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	JXM	1	PASI-G
40176305004	B-12 (2-3.5)	EPA 6010	TXW	7	PASI-G
		EPA 6010	TXW	1	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
40176305005	B-12 (9.5-11)	ASTM D2974-87	JXM	1	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
40176305006	B-16 (2-3.5)	ASTM D2974-87	JXM	1	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
40176305007	B-17 (6"-2.5)	ASTM D2974-87	JXM	1	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
40176305008	B-18 (6"-2)	ASTM D2974-87	JXM	1	PASI-G
		EPA 6010	TXW	7	PASI-G

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SAMPLE ANALYTE COUNT

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40176305009	B-18 (9.5-11)	EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	JXM	1	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
40176305010	B-19 (6"-3.5)	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	JXM	1	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	JXM	1	PASI-G
40176305011	B-20 (6"-3.5)	EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	JXM	1	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
40176305012	B-21 (2-3.5)	EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	JXM	1	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 6010	TXW	3	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
40176305013	B-21 (14.5-16)	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	JXM	1	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	JXM	1	PASI-G
40176305014	B-23 (6"-2)	EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	JXM	1	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
40176305015	B-23 (12-13.5)	EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	JXM	1	PASI-G
40176305015	B-23 (12-13.5)	EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40176305

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	JXM	1	PASI-G

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40176305001	B-1 (2-3.5)					
EPA 6010	Arsenic	8.0	mg/kg	5.9	09/28/18 10:09	
EPA 6010	Barium	72.1	mg/kg	0.59	09/28/18 10:09	
EPA 6010	Cadmium	0.27J	mg/kg	0.59	09/28/18 10:09	
EPA 6010	Chromium	20.5	mg/kg	1.2	09/28/18 10:09	
EPA 6010	Lead	10.3	mg/kg	2.4	09/28/18 10:09	
EPA 8260	Methylene Chloride	70.3J	ug/kg	71.6	09/25/18 12:02	B
ASTM D2974-87	Percent Moisture	16.2	%	0.10	09/25/18 14:48	
40176305002	B-2 (2-3.5)					
EPA 6010	Arsenic	2.4J	mg/kg	5.2	09/28/18 10:17	
EPA 6010	Barium	8.2	mg/kg	0.52	09/28/18 10:17	
EPA 6010	Chromium	7.7	mg/kg	1.0	09/28/18 10:17	
EPA 6010	Lead	3.4	mg/kg	2.1	09/28/18 10:17	
EPA 8260	Methylene Chloride	66.4	ug/kg	63.9	09/25/18 12:25	B
ASTM D2974-87	Percent Moisture	6.1	%	0.10	09/25/18 14:48	
40176305003	B-4 (2-3.5)					
EPA 6010	Arsenic	4.3J	mg/kg	5.9	09/28/18 10:19	
EPA 6010	Barium	46.6	mg/kg	0.59	09/28/18 10:19	
EPA 6010	Cadmium	0.17J	mg/kg	0.59	09/28/18 10:19	
EPA 6010	Chromium	18.7	mg/kg	1.2	09/28/18 10:19	
EPA 6010	Lead	9.1	mg/kg	2.3	09/28/18 10:19	
EPA 8270 by SIM	Naphthalene	11.1J	ug/kg	33.7	09/25/18 15:08	
EPA 8260	Methylene Chloride	65.8J	ug/kg	72.0	09/25/18 12:48	B
ASTM D2974-87	Percent Moisture	16.7	%	0.10	09/25/18 14:48	
40176305004	B-12 (2-3.5)					
EPA 6010	Arsenic	7.7	mg/kg	5.6	09/28/18 10:22	
EPA 6010	Barium	180	mg/kg	0.56	09/28/18 10:22	
EPA 6010	Cadmium	0.65	mg/kg	0.56	09/28/18 10:22	
EPA 6010	Chromium	12.2	mg/kg	1.1	09/28/18 10:22	
EPA 6010	Lead	429	mg/kg	2.2	09/28/18 10:22	
EPA 6010	Lead	2.9	mg/L	0.098	10/18/18 11:11	
EPA 7471	Mercury	0.040J	mg/kg	0.13	09/26/18 09:46	
EPA 8270 by SIM	Acenaphthene	4.5J	ug/kg	14.7	09/26/18 15:40	
EPA 8270 by SIM	Acenaphthylene	4.8J	ug/kg	12.5	09/26/18 15:40	
EPA 8270 by SIM	Anthracene	19.2J	ug/kg	21.6	09/26/18 15:40	
EPA 8270 by SIM	Benzo(a)anthracene	82.7	ug/kg	12.1	09/26/18 15:40	
EPA 8270 by SIM	Benzo(a)pyrene	84.6	ug/kg	9.5	09/26/18 15:40	
EPA 8270 by SIM	Benzo(b)fluoranthene	166	ug/kg	10.7	09/26/18 15:40	
EPA 8270 by SIM	Benzo(g,h,i)perylene	57.7	ug/kg	7.7	09/26/18 15:40	
EPA 8270 by SIM	Benzo(k)fluoranthene	46.2	ug/kg	9.5	09/26/18 15:40	
EPA 8270 by SIM	Chrysene	133	ug/kg	12.8	09/26/18 15:40	
EPA 8270 by SIM	Dibenz(a,h)anthracene	20.8	ug/kg	8.5	09/26/18 15:40	
EPA 8270 by SIM	Fluoranthene	171	ug/kg	19.8	09/26/18 15:40	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	44.3	ug/kg	8.4	09/26/18 15:40	
EPA 8270 by SIM	1-Methylnaphthalene	14.9J	ug/kg	15.3	09/26/18 15:40	
EPA 8270 by SIM	2-Methylnaphthalene	21.5	ug/kg	19.0	09/26/18 15:40	
EPA 8270 by SIM	Naphthalene	29.7J	ug/kg	32.0	09/26/18 15:40	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40176305

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
40176305004	B-12 (2-3.5)					
EPA 8270 by SIM	Phenanthrene	79.9	ug/kg	44.2	09/26/18 15:40	
EPA 8270 by SIM	Pyrene	122	ug/kg	17.1	09/26/18 15:40	
EPA 8260	1,2,4-Trimethylbenzene	35.4J	ug/kg	68.3	09/25/18 13:12	
EPA 8260	1,2-Dichlorobenzene	332	ug/kg	68.3	09/25/18 13:12	
EPA 8260	1,2-Dichloroethane	39.6J	ug/kg	68.3	09/25/18 13:12	
EPA 8260	1,4-Dichlorobenzene	306	ug/kg	68.3	09/25/18 13:12	
EPA 8260	Chlorobenzene	243	ug/kg	68.3	09/25/18 13:12	
EPA 8260	Methylene Chloride	56.8J	ug/kg	68.3	09/25/18 13:12	B
EPA 8260	Naphthalene	430	ug/kg	284	09/25/18 13:12	
EPA 8260	m&p-Xylene	91.0J	ug/kg	137	09/25/18 13:12	
EPA 8260	o-Xylene	57.1J	ug/kg	68.3	09/25/18 13:12	
ASTM D2974-87	Percent Moisture	12.1	%	0.10	09/25/18 14:48	
40176305005	B-12 (9.5-11)					
EPA 6010	Arsenic	6.4	mg/kg	5.6	09/28/18 10:24	
EPA 6010	Barium	57.6	mg/kg	0.56	09/28/18 10:24	
EPA 6010	Cadmium	0.20J	mg/kg	0.56	09/28/18 10:24	
EPA 6010	Chromium	14.7	mg/kg	1.1	09/28/18 10:24	
EPA 6010	Lead	8.0	mg/kg	2.2	09/28/18 10:24	
EPA 8260	1,2-Dichloroethane	174	ug/kg	71.0	09/25/18 13:35	
EPA 8260	Methylene Chloride	66.0J	ug/kg	71.0	09/25/18 13:35	B
ASTM D2974-87	Percent Moisture	15.5	%	0.10	09/25/18 14:48	
40176305006	B-16 (2-3.5)					
EPA 6010	Arsenic	5.4	mg/kg	5.3	09/28/18 10:27	
EPA 6010	Barium	52.3	mg/kg	0.53	09/28/18 10:27	
EPA 6010	Cadmium	0.20J	mg/kg	0.53	09/28/18 10:27	
EPA 6010	Chromium	15.9	mg/kg	1.1	09/28/18 10:27	
EPA 6010	Lead	7.9	mg/kg	2.1	09/28/18 10:27	
EPA 8260	Methylene Chloride	56.3J	ug/kg	70.8	09/25/18 13:58	B
ASTM D2974-87	Percent Moisture	15.3	%	0.10	09/25/18 14:48	
40176305007	B-17 (6"-2.5)					
EPA 6010	Arsenic	4.0J	mg/kg	5.4	09/28/18 10:34	
EPA 6010	Barium	11.7	mg/kg	0.54	09/28/18 10:34	
EPA 6010	Chromium	8.4	mg/kg	1.1	09/28/18 10:34	
EPA 6010	Lead	3.8	mg/kg	2.2	09/28/18 10:34	
EPA 8270 by SIM	Benzo(a)anthracene	20.4	ug/kg	11.8	09/26/18 15:58	
EPA 8270 by SIM	Benzo(a)pyrene	22.5	ug/kg	9.3	09/26/18 15:58	
EPA 8270 by SIM	Benzo(b)fluoranthene	33.6	ug/kg	10.4	09/26/18 15:58	
EPA 8270 by SIM	Benzo(g,h,i)perylene	12.9	ug/kg	7.5	09/26/18 15:58	
EPA 8270 by SIM	Benzo(k)fluoranthene	14.0	ug/kg	9.3	09/26/18 15:58	
EPA 8270 by SIM	Chrysene	27.7	ug/kg	12.4	09/26/18 15:58	
EPA 8270 by SIM	Dibenz(a,h)anthracene	3.7J	ug/kg	8.3	09/26/18 15:58	
EPA 8270 by SIM	Fluoranthene	53.5	ug/kg	19.3	09/26/18 15:58	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	10.2	ug/kg	8.1	09/26/18 15:58	
EPA 8270 by SIM	Pyrene	43.3	ug/kg	16.6	09/26/18 15:58	
EPA 8260	Methylene Chloride	67.5	ug/kg	66.6	09/25/18 14:21	B
ASTM D2974-87	Percent Moisture	9.9	%	0.10	09/25/18 14:48	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40176305

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
40176305008	B-18 (6"-2)					
EPA 6010	Arsenic	4.1J	mg/kg	10.2	10/02/18 18:18	D3
EPA 6010	Barium	14.7	mg/kg	1.0	10/02/18 18:18	
EPA 6010	Chromium	6.9	mg/kg	2.0	10/02/18 18:18	
EPA 6010	Lead	4.1	mg/kg	4.1	10/02/18 18:18	
EPA 8270 by SIM	Benzo(a)anthracene	19.8	ug/kg	11.2	09/26/18 16:15	
EPA 8270 by SIM	Benzo(a)pyrene	22.5	ug/kg	8.9	09/26/18 16:15	
EPA 8270 by SIM	Benzo(b)fluoranthene	30.1	ug/kg	10	09/26/18 16:15	
EPA 8270 by SIM	Benzo(g,h,i)perylene	13.4	ug/kg	7.2	09/26/18 16:15	
EPA 8270 by SIM	Benzo(k)fluoranthene	13.8	ug/kg	8.9	09/26/18 16:15	
EPA 8270 by SIM	Chrysene	20.2	ug/kg	11.9	09/26/18 16:15	
EPA 8270 by SIM	Dibenz(a,h)anthracene	3.3J	ug/kg	7.9	09/26/18 16:15	
EPA 8270 by SIM	Fluoranthene	37.6	ug/kg	18.4	09/26/18 16:15	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	10.2	ug/kg	7.8	09/26/18 16:15	
EPA 8270 by SIM	Pyrene	31.8	ug/kg	15.9	09/26/18 16:15	
EPA 8260	Methylene Chloride	51.6J	ug/kg	63.5	09/25/18 14:44	B
ASTM D2974-87	Percent Moisture	5.5	%	0.10	09/25/18 14:48	
40176305009	B-18 (9.5-11)					
EPA 6010	Arsenic	4.9J	mg/kg	10.3	10/02/18 18:20	D3
EPA 6010	Barium	45.2	mg/kg	1.0	10/02/18 18:20	
EPA 6010	Chromium	9.0	mg/kg	2.1	10/02/18 18:20	
EPA 6010	Lead	5.2	mg/kg	4.1	10/02/18 18:20	
EPA 8270 by SIM	Acenaphthene	5.3J	ug/kg	14.4	09/26/18 16:32	
EPA 8270 by SIM	Anthracene	12.1J	ug/kg	21.2	09/26/18 16:32	
EPA 8270 by SIM	Benzo(a)anthracene	19.8	ug/kg	11.8	09/26/18 16:32	
EPA 8270 by SIM	Benzo(a)pyrene	15.1	ug/kg	9.3	09/26/18 16:32	
EPA 8270 by SIM	Benzo(b)fluoranthene	24.8	ug/kg	10.5	09/26/18 16:32	
EPA 8270 by SIM	Benzo(g,h,i)perylene	7.0J	ug/kg	7.6	09/26/18 16:32	
EPA 8270 by SIM	Benzo(k)fluoranthene	9.8	ug/kg	9.3	09/26/18 16:32	
EPA 8270 by SIM	Chrysene	26.9	ug/kg	12.5	09/26/18 16:32	
EPA 8270 by SIM	Fluoranthene	78.1	ug/kg	19.4	09/26/18 16:32	
EPA 8270 by SIM	Fluorene	5.4J	ug/kg	15.4	09/26/18 16:32	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	5.9J	ug/kg	8.2	09/26/18 16:32	
EPA 8270 by SIM	Phenanthrene	50.8	ug/kg	43.3	09/26/18 16:32	
EPA 8270 by SIM	Pyrene	51.9	ug/kg	16.7	09/26/18 16:32	
EPA 8260	Methylene Chloride	63.8J	ug/kg	66.9	09/25/18 15:07	B
ASTM D2974-87	Percent Moisture	10.3	%	0.10	09/25/18 14:49	
40176305010	B-19 (6"-3.5)					
EPA 6010	Arsenic	5.3J	mg/kg	10.8	10/02/18 18:23	D3
EPA 6010	Barium	12.9	mg/kg	1.1	10/02/18 18:23	
EPA 6010	Chromium	7.6	mg/kg	2.2	10/02/18 18:23	
EPA 6010	Lead	1.9J	mg/kg	4.3	10/02/18 18:23	D3
EPA 8270 by SIM	Acenaphthene	12.7J	ug/kg	14.7	09/26/18 16:50	
EPA 8270 by SIM	Acenaphthylene	5.4J	ug/kg	12.6	09/26/18 16:50	
EPA 8270 by SIM	Anthracene	44.9	ug/kg	21.7	09/26/18 16:50	
EPA 8270 by SIM	Benzo(a)anthracene	136	ug/kg	12.1	09/26/18 16:50	
EPA 8270 by SIM	Benzo(a)pyrene	142	ug/kg	9.6	09/26/18 16:50	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40176305

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
40176305010	B-19 (6"-3.5)					
EPA 8270 by SIM	Benzo(b)fluoranthene	234	ug/kg	10.7	09/26/18 16:50	
EPA 8270 by SIM	Benzo(g,h,i)perylene	61.2	ug/kg	7.7	09/26/18 16:50	
EPA 8270 by SIM	Benzo(k)fluoranthene	77.4	ug/kg	9.5	09/26/18 16:50	
EPA 8270 by SIM	Chrysene	173	ug/kg	12.8	09/26/18 16:50	
EPA 8270 by SIM	Dibenz(a,h)anthracene	15.9	ug/kg	8.5	09/26/18 16:50	
EPA 8270 by SIM	Fluoranthene	360	ug/kg	19.9	09/26/18 16:50	
EPA 8270 by SIM	Fluorene	11.3J	ug/kg	15.8	09/26/18 16:50	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	41.2	ug/kg	8.4	09/26/18 16:50	
EPA 8270 by SIM	1-Methylnaphthalene	13.7J	ug/kg	15.3	09/26/18 16:50	
EPA 8270 by SIM	2-Methylnaphthalene	20.9	ug/kg	19.1	09/26/18 16:50	
EPA 8270 by SIM	Phenanthrene	212	ug/kg	44.3	09/26/18 16:50	
EPA 8270 by SIM	Pyrene	271	ug/kg	17.1	09/26/18 16:50	
EPA 8260	Methylene Chloride	57.3J	ug/kg	68.6	09/25/18 15:30	B
ASTM D2974-87	Percent Moisture	12.5	%	0.10	09/25/18 14:49	
40176305011	B-20 (6"-3.5)					
EPA 6010	Arsenic	5.9J	mg/kg	10.5	10/02/18 18:25	D3
EPA 6010	Barium	8.9	mg/kg	1.0	10/02/18 18:25	
EPA 6010	Chromium	4.5	mg/kg	2.1	10/02/18 18:25	
EPA 6010	Lead	7.0	mg/kg	4.2	10/02/18 18:25	
EPA 8270 by SIM	Anthracene	7.9J	ug/kg	20.2	09/26/18 17:07	
EPA 8270 by SIM	Benzo(a)anthracene	26.1	ug/kg	11.3	09/26/18 17:07	
EPA 8270 by SIM	Benzo(a)pyrene	26.5	ug/kg	8.9	09/26/18 17:07	
EPA 8270 by SIM	Benzo(b)fluoranthene	41.4	ug/kg	10.0	09/26/18 17:07	
EPA 8270 by SIM	Benzo(g,h,i)perylene	10.5	ug/kg	7.2	09/26/18 17:07	
EPA 8270 by SIM	Benzo(k)fluoranthene	14.6	ug/kg	8.9	09/26/18 17:07	
EPA 8270 by SIM	Chrysene	34.1	ug/kg	11.9	09/26/18 17:07	
EPA 8270 by SIM	Dibenz(a,h)anthracene	2.8J	ug/kg	7.9	09/26/18 17:07	
EPA 8270 by SIM	Fluoranthene	60.9	ug/kg	18.5	09/26/18 17:07	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	7.4J	ug/kg	7.8	09/26/18 17:07	
EPA 8270 by SIM	Phenanthrene	32.6J	ug/kg	41.3	09/26/18 17:07	
EPA 8270 by SIM	Pyrene	46.9	ug/kg	16.0	09/26/18 17:07	
EPA 8260	Methylene Chloride	44.0J	ug/kg	63.9	09/25/18 16:06	B
ASTM D2974-87	Percent Moisture	6.1	%	0.10	09/25/18 14:49	
40176305012	B-21 (2-3.5)					
EPA 6010	Arsenic	9.1	mg/kg	5.6	09/28/18 10:46	
EPA 6010	Barium	660	mg/kg	0.56	09/28/18 10:46	
EPA 6010	Cadmium	104	mg/kg	0.56	09/28/18 10:46	
EPA 6010	Chromium	214	mg/kg	1.1	09/28/18 10:46	
EPA 6010	Lead	8250	mg/kg	225	10/02/18 18:28	
EPA 6010	Selenium	3.9J	mg/kg	4.9	09/28/18 10:46	
EPA 6010	Silver	1.1	mg/kg	1.1	09/28/18 10:46	
EPA 6010	Cadmium	0.28	mg/L	0.025	10/18/18 11:18	
EPA 6010	Lead	4.1	mg/L	0.098	10/18/18 11:18	
EPA 7471	Mercury	0.22	mg/kg	0.13	09/26/18 10:04	
EPA 8270 by SIM	Acenaphthene	538	ug/kg	297	09/26/18 13:06	
EPA 8270 by SIM	Acenaphthylene	90.8J	ug/kg	253	09/26/18 13:06	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40176305

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
40176305012	B-21 (2-3.5)					
EPA 8270 by SIM	Anthracene	1400	ug/kg	438	09/26/18 13:06	
EPA 8270 by SIM	Benzo(a)anthracene	2090	ug/kg	244	09/26/18 13:06	
EPA 8270 by SIM	Benzo(a)pyrene	2190	ug/kg	193	09/26/18 13:06	
EPA 8270 by SIM	Benzo(b)fluoranthene	2740	ug/kg	217	09/26/18 13:06	
EPA 8270 by SIM	Benzo(g,h,i)perylene	1560	ug/kg	156	09/26/18 13:06	
EPA 8270 by SIM	Benzo(k)fluoranthene	1230	ug/kg	193	09/26/18 13:06	
EPA 8270 by SIM	Chrysene	2410	ug/kg	258	09/26/18 13:06	
EPA 8270 by SIM	Dibenz(a,h)anthracene	306	ug/kg	172	09/26/18 13:06	
EPA 8270 by SIM	Fluoranthene	6770	ug/kg	401	09/26/18 13:06	
EPA 8270 by SIM	Fluorene	756	ug/kg	318	09/26/18 13:06	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	1190	ug/kg	169	09/26/18 13:06	
EPA 8270 by SIM	1-Methylnaphthalene	323	ug/kg	309	09/26/18 13:06	
EPA 8270 by SIM	2-Methylnaphthalene	564	ug/kg	385	09/26/18 13:06	
EPA 8270 by SIM	Naphthalene	1090	ug/kg	647	09/26/18 13:06	
EPA 8270 by SIM	Phenanthrene	4110	ug/kg	894	09/26/18 13:06	
EPA 8270 by SIM	Pyrene	5080	ug/kg	346	09/26/18 13:06	
EPA 8260	1,2,4-Trichlorobenzene	102J	ug/kg	288	09/25/18 16:29	
EPA 8260	1,2,4-Trimethylbenzene	77.3	ug/kg	69.2	09/25/18 16:29	
EPA 8260	1,2-Dichlorobenzene	1290	ug/kg	69.2	09/25/18 16:29	
EPA 8260	1,3,5-Trimethylbenzene	44.4J	ug/kg	69.2	09/25/18 16:29	
EPA 8260	1,3-Dichlorobenzene	88.4	ug/kg	69.2	09/25/18 16:29	
EPA 8260	1,4-Dichlorobenzene	1170	ug/kg	69.2	09/25/18 16:29	
EPA 8260	Chlorobenzene	1430	ug/kg	69.2	09/25/18 16:29	
EPA 8260	Ethylbenzene	130	ug/kg	69.2	09/25/18 16:29	
EPA 8260	Methylene Chloride	60.1J	ug/kg	69.2	09/25/18 16:29	B
EPA 8260	Naphthalene	1140	ug/kg	288	09/25/18 16:29	
EPA 8260	Toluene	136	ug/kg	69.2	09/25/18 16:29	
EPA 8260	m&p-Xylene	254	ug/kg	138	09/25/18 16:29	
EPA 8260	n-Butylbenzene	40.6J	ug/kg	69.2	09/25/18 16:29	
EPA 8260	o-Xylene	134	ug/kg	69.2	09/25/18 16:29	
ASTM D2974-87	Percent Moisture	13.3	%	0.10	09/25/18 14:49	
40176305013	B-21 (14.5-16)					
EPA 6010	Arsenic	6.4	mg/kg	5.8	09/28/18 10:49	
EPA 6010	Barium	61.9	mg/kg	0.58	09/28/18 10:49	
EPA 6010	Cadmium	0.39J	mg/kg	0.58	09/28/18 10:49	
EPA 6010	Chromium	16.6	mg/kg	1.2	09/28/18 10:49	
EPA 6010	Lead	17.9	mg/kg	2.3	09/28/18 10:49	
EPA 8270 by SIM	Acenaphthene	884	ug/kg	382	09/26/18 12:31	
EPA 8270 by SIM	Acenaphthylene	207J	ug/kg	326	09/26/18 12:31	
EPA 8270 by SIM	Anthracene	384J	ug/kg	563	09/26/18 12:31	
EPA 8270 by SIM	Fluorene	996	ug/kg	409	09/26/18 12:31	
EPA 8270 by SIM	1-Methylnaphthalene	9270	ug/kg	397	09/26/18 12:31	
EPA 8270 by SIM	2-Methylnaphthalene	16900	ug/kg	495	09/26/18 12:31	
EPA 8270 by SIM	Naphthalene	3510	ug/kg	832	09/26/18 12:31	
EPA 8270 by SIM	Phenanthrene	3260	ug/kg	1150	09/26/18 12:31	
EPA 8270 by SIM	Pyrene	175J	ug/kg	444	09/26/18 12:31	
EPA 8260	Methylene Chloride	49.8J	ug/kg	71.0	09/25/18 16:52	B

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40176305

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
40176305013	B-21 (14.5-16)					
EPA 8260	Naphthalene	106J	ug/kg	296	09/25/18 16:52	
ASTM D2974-87	Percent Moisture	15.5	%	0.10	09/25/18 14:49	
40176305014	B-23 (6"-2)					
EPA 6010	Arsenic	5.2J	mg/kg	5.4	09/28/18 10:51	
EPA 6010	Barium	66.8	mg/kg	0.54	09/28/18 10:51	
EPA 6010	Cadmium	0.36J	mg/kg	0.54	09/28/18 10:51	
EPA 6010	Chromium	18.2	mg/kg	1.1	09/28/18 10:51	
EPA 6010	Lead	50.3	mg/kg	2.2	09/28/18 10:51	
EPA 7471	Mercury	0.069J	mg/kg	0.12	09/26/18 10:13	
EPA 8270 by SIM	Acenaphthene	185	ug/kg	57.6	09/26/18 14:49	
EPA 8270 by SIM	Acenaphthylene	34.0J	ug/kg	49.1	09/26/18 14:49	
EPA 8270 by SIM	Anthracene	322	ug/kg	84.8	09/26/18 14:49	
EPA 8270 by SIM	Benzo(a)anthracene	729	ug/kg	47.3	09/26/18 14:49	
EPA 8270 by SIM	Benzo(a)pyrene	744	ug/kg	37.4	09/26/18 14:49	
EPA 8270 by SIM	Benzo(b)fluoranthene	905	ug/kg	42.0	09/26/18 14:49	
EPA 8270 by SIM	Benzo(g,h,i)perylene	420	ug/kg	30.2	09/26/18 14:49	
EPA 8270 by SIM	Benzo(k)fluoranthene	425	ug/kg	37.3	09/26/18 14:49	
EPA 8270 by SIM	Chrysene	827	ug/kg	50.0	09/26/18 14:49	
EPA 8270 by SIM	Dibenz(a,h)anthracene	111	ug/kg	33.3	09/26/18 14:49	
EPA 8270 by SIM	Fluoranthene	1630	ug/kg	77.7	09/26/18 14:49	
EPA 8270 by SIM	Fluorene	26.2J	ug/kg	61.6	09/26/18 14:49	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	369	ug/kg	32.7	09/26/18 14:49	
EPA 8270 by SIM	1-Methylnaphthalene	37.7J	ug/kg	59.8	09/26/18 14:49	
EPA 8270 by SIM	Phenanthrene	576	ug/kg	173	09/26/18 14:49	
EPA 8270 by SIM	Pyrene	1220	ug/kg	67.0	09/26/18 14:49	
EPA 8260	Methylene Chloride	64.1J	ug/kg	67.0	09/25/18 19:11	B
ASTM D2974-87	Percent Moisture	10.4	%	0.10	09/25/18 14:49	
40176305015	B-23 (12-13.5)					
EPA 6010	Arsenic	4.8J	mg/kg	5.5	09/28/18 10:54	
EPA 6010	Barium	75.2	mg/kg	0.55	09/28/18 10:54	
EPA 6010	Cadmium	0.25J	mg/kg	0.55	09/28/18 10:54	
EPA 6010	Chromium	20.7	mg/kg	1.1	09/28/18 10:54	
EPA 6010	Lead	11.7	mg/kg	2.2	09/28/18 10:54	
EPA 8270 by SIM	Benzo(a)anthracene	5.6J	ug/kg	12.8	09/26/18 11:40	
EPA 8270 by SIM	Fluoranthene	6.6J	ug/kg	21.1	09/26/18 11:40	
EPA 8270 by SIM	Pyrene	5.8J	ug/kg	18.2	09/26/18 11:40	
EPA 8260	1,2-Dichloroethane	115	ug/kg	72.7	09/25/18 17:15	
EPA 8260	Methylene Chloride	59.7J	ug/kg	72.7	09/25/18 17:15	B
ASTM D2974-87	Percent Moisture	17.4	%	0.10	09/25/18 14:49	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-1 (2-3.5) **Lab ID: 40176305001** Collected: 09/18/18 09:00 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	8.0	mg/kg	5.9	1.2	1	09/26/18 07:12	09/28/18 10:09	7440-38-2	
Barium	72.1	mg/kg	0.59	0.18	1	09/26/18 07:12	09/28/18 10:09	7440-39-3	
Cadmium	0.27J	mg/kg	0.59	0.16	1	09/26/18 07:12	09/28/18 10:09	7440-43-9	
Chromium	20.5	mg/kg	1.2	0.33	1	09/26/18 07:12	09/28/18 10:09	7440-47-3	
Lead	10.3	mg/kg	2.4	0.71	1	09/26/18 07:12	09/28/18 10:09	7439-92-1	
Selenium	<1.6	mg/kg	5.2	1.6	1	09/26/18 07:12	09/28/18 10:09	7782-49-2	
Silver	<0.41	mg/kg	1.2	0.41	1	09/26/18 07:12	09/28/18 10:09	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.037	mg/kg	0.12	0.037	1	09/25/18 12:34	09/26/18 09:34	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<4.6	ug/kg	15.4	4.6	1	09/25/18 08:51	09/25/18 14:34	83-32-9	
Acenaphthylene	<3.9	ug/kg	13.1	3.9	1	09/25/18 08:51	09/25/18 14:34	208-96-8	
Anthracene	<6.8	ug/kg	22.6	6.8	1	09/25/18 08:51	09/25/18 14:34	120-12-7	
Benzo(a)anthracene	<3.8	ug/kg	12.6	3.8	1	09/25/18 08:51	09/25/18 14:34	56-55-3	
Benzo(a)pyrene	<3.0	ug/kg	10	3.0	1	09/25/18 08:51	09/25/18 14:34	50-32-8	
Benzo(b)fluoranthene	<3.4	ug/kg	11.2	3.4	1	09/25/18 08:51	09/25/18 14:34	205-99-2	
Benzo(g,h,i)perylene	<2.4	ug/kg	8.1	2.4	1	09/25/18 08:51	09/25/18 14:34	191-24-2	
Benzo(k)fluoranthene	<3.0	ug/kg	10	3.0	1	09/25/18 08:51	09/25/18 14:34	207-08-9	
Chrysene	<4.0	ug/kg	13.3	4.0	1	09/25/18 08:51	09/25/18 14:34	218-01-9	
Dibenz(a,h)anthracene	<2.7	ug/kg	8.9	2.7	1	09/25/18 08:51	09/25/18 14:34	53-70-3	
Fluoranthene	<6.2	ug/kg	20.7	6.2	1	09/25/18 08:51	09/25/18 14:34	206-44-0	
Fluorene	<4.9	ug/kg	16.4	4.9	1	09/25/18 08:51	09/25/18 14:34	86-73-7	
Indeno(1,2,3-cd)pyrene	<2.6	ug/kg	8.7	2.6	1	09/25/18 08:51	09/25/18 14:34	193-39-5	
1-Methylnaphthalene	<4.8	ug/kg	16.0	4.8	1	09/25/18 08:51	09/25/18 14:34	90-12-0	
2-Methylnaphthalene	<6.0	ug/kg	19.9	6.0	1	09/25/18 08:51	09/25/18 14:34	91-57-6	
Naphthalene	<10.0	ug/kg	33.5	10.0	1	09/25/18 08:51	09/25/18 14:34	91-20-3	
Phenanthrene	<13.9	ug/kg	46.2	13.9	1	09/25/18 08:51	09/25/18 14:34	85-01-8	
Pyrene	<5.4	ug/kg	17.9	5.4	1	09/25/18 08:51	09/25/18 14:34	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	55	%	10-115		1	09/25/18 08:51	09/25/18 14:34	321-60-8	
Terphenyl-d14 (S)	53	%	10-121		1	09/25/18 08:51	09/25/18 14:34	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	71-55-6	W
1,1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/25/18 08:00	09/25/18 12:02	120-82-1	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-1 (2-3.5) **Lab ID: 40176305001** Collected: 09/18/18 09:00 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/25/18 08:00	09/25/18 12:02	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/25/18 08:00	09/25/18 12:02	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/25/18 08:00	09/25/18 12:02	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/25/18 08:00	09/25/18 12:02	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	1634-04-4	W
Methylene Chloride	70.3J	ug/kg	71.6	29.8	1	09/25/18 08:00	09/25/18 12:02	75-09-2	B
Naphthalene	<40.0	ug/kg	250	40.0	1	09/25/18 08:00	09/25/18 12:02	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/25/18 08:00	09/25/18 12:02	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	103-65-1	W

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-1 (2-3.5) **Lab ID: 40176305001** Collected: 09/18/18 09:00 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	108	%	57-148		1	09/25/18 08:00	09/25/18 12:02	1868-53-7	
Toluene-d8 (S)	103	%	58-142		1	09/25/18 08:00	09/25/18 12:02	2037-26-5	
4-Bromofluorobenzene (S)	84	%	48-130		1	09/25/18 08:00	09/25/18 12:02	460-00-4	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	16.2	%	0.10	0.10	1		09/25/18 14:48		

Sample: B-2 (2-3.5) **Lab ID: 40176305002** Collected: 09/18/18 09:30 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	2.4J	mg/kg	5.2	1.1	1	09/26/18 07:12	09/28/18 10:17	7440-38-2	
Barium	8.2	mg/kg	0.52	0.16	1	09/26/18 07:12	09/28/18 10:17	7440-39-3	
Cadmium	<0.14	mg/kg	0.52	0.14	1	09/26/18 07:12	09/28/18 10:17	7440-43-9	
Chromium	7.7	mg/kg	1.0	0.29	1	09/26/18 07:12	09/28/18 10:17	7440-47-3	
Lead	3.4	mg/kg	2.1	0.62	1	09/26/18 07:12	09/28/18 10:17	7439-92-1	
Selenium	<1.4	mg/kg	4.5	1.4	1	09/26/18 07:12	09/28/18 10:17	7782-49-2	
Silver	<0.36	mg/kg	1.0	0.36	1	09/26/18 07:12	09/28/18 10:17	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.036	mg/kg	0.12	0.036	1	09/25/18 12:34	09/26/18 09:36	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<4.1	ug/kg	13.7	4.1	1	09/25/18 08:51	09/25/18 14:51	83-32-9	
Acenaphthylene	<3.5	ug/kg	11.7	3.5	1	09/25/18 08:51	09/25/18 14:51	208-96-8	
Anthracene	<6.1	ug/kg	20.2	6.1	1	09/25/18 08:51	09/25/18 14:51	120-12-7	
Benzo(a)anthracene	<3.4	ug/kg	11.3	3.4	1	09/25/18 08:51	09/25/18 14:51	56-55-3	
Benzo(a)pyrene	<2.7	ug/kg	8.9	2.7	1	09/25/18 08:51	09/25/18 14:51	50-32-8	
Benzo(b)fluoranthene	<3.0	ug/kg	10.0	3.0	1	09/25/18 08:51	09/25/18 14:51	205-99-2	
Benzo(g,h,i)perylene	<2.2	ug/kg	7.2	2.2	1	09/25/18 08:51	09/25/18 14:51	191-24-2	
Benzo(k)fluoranthene	<2.7	ug/kg	8.9	2.7	1	09/25/18 08:51	09/25/18 14:51	207-08-9	
Chrysene	<3.6	ug/kg	11.9	3.6	1	09/25/18 08:51	09/25/18 14:51	218-01-9	
Dibenz(a,h)anthracene	<2.4	ug/kg	7.9	2.4	1	09/25/18 08:51	09/25/18 14:51	53-70-3	
Fluoranthene	<5.5	ug/kg	18.5	5.5	1	09/25/18 08:51	09/25/18 14:51	206-44-0	

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-2 (2-3.5) **Lab ID: 40176305002** Collected: 09/18/18 09:30 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Fluorene	<4.4	ug/kg	14.7	4.4	1	09/25/18 08:51	09/25/18 14:51	86-73-7	
Indeno(1,2,3-cd)pyrene	<2.3	ug/kg	7.8	2.3	1	09/25/18 08:51	09/25/18 14:51	193-39-5	
1-Methylnaphthalene	<4.3	ug/kg	14.3	4.3	1	09/25/18 08:51	09/25/18 14:51	90-12-0	
2-Methylnaphthalene	<5.3	ug/kg	17.8	5.3	1	09/25/18 08:51	09/25/18 14:51	91-57-6	
Naphthalene	<9.0	ug/kg	29.9	9.0	1	09/25/18 08:51	09/25/18 14:51	91-20-3	
Phenanthrene	<12.4	ug/kg	41.3	12.4	1	09/25/18 08:51	09/25/18 14:51	85-01-8	
Pyrene	<4.8	ug/kg	16.0	4.8	1	09/25/18 08:51	09/25/18 14:51	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	51	%	10-115		1	09/25/18 08:51	09/25/18 14:51	321-60-8	
Terphenyl-d14 (S)	47	%	10-121		1	09/25/18 08:51	09/25/18 14:51	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/25/18 08:00	09/25/18 12:25	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/25/18 08:00	09/25/18 12:25	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/25/18 08:00	09/25/18 12:25	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/25/18 08:00	09/25/18 12:25	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/25/18 08:00	09/25/18 12:25	67-66-3	W

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-2 (2-3.5) **Lab ID: 40176305002** Collected: 09/18/18 09:30 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	1634-04-4	W
Methylene Chloride	66.4	ug/kg	63.9	26.6	1	09/25/18 08:00	09/25/18 12:25	75-09-2	B
Naphthalene	<40.0	ug/kg	250	40.0	1	09/25/18 08:00	09/25/18 12:25	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/25/18 08:00	09/25/18 12:25	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	145	%	57-148		1	09/25/18 08:00	09/25/18 12:25	1868-53-7	
Toluene-d8 (S)	138	%	58-142		1	09/25/18 08:00	09/25/18 12:25	2037-26-5	
4-Bromofluorobenzene (S)	114	%	48-130		1	09/25/18 08:00	09/25/18 12:25	460-00-4	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	6.1	%	0.10	0.10	1		09/25/18 14:48		

Sample: B-4 (2-3.5) **Lab ID: 40176305003** Collected: 09/18/18 10:00 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	4.3J	mg/kg	5.9	1.2	1	09/26/18 07:12	09/28/18 10:19	7440-38-2	

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-4 (2-3.5) **Lab ID: 40176305003** Collected: 09/18/18 10:00 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Barium	46.6	mg/kg	0.59	0.18	1	09/26/18 07:12	09/28/18 10:19	7440-39-3	
Cadmium	0.17J	mg/kg	0.59	0.16	1	09/26/18 07:12	09/28/18 10:19	7440-43-9	
Chromium	18.7	mg/kg	1.2	0.33	1	09/26/18 07:12	09/28/18 10:19	7440-47-3	
Lead	9.1	mg/kg	2.3	0.70	1	09/26/18 07:12	09/28/18 10:19	7439-92-1	
Selenium	<1.5	mg/kg	5.1	1.5	1	09/26/18 07:12	09/28/18 10:19	7782-49-2	
Silver	<0.40	mg/kg	1.2	0.40	1	09/26/18 07:12	09/28/18 10:19	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.038	mg/kg	0.13	0.038	1	09/25/18 12:34	09/26/18 09:39	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<4.7	ug/kg	15.5	4.7	1	09/25/18 08:51	09/25/18 15:08	83-32-9	
Acenaphthylene	<4.0	ug/kg	13.2	4.0	1	09/25/18 08:51	09/25/18 15:08	208-96-8	
Anthracene	<6.9	ug/kg	22.8	6.9	1	09/25/18 08:51	09/25/18 15:08	120-12-7	
Benzo(a)anthracene	<3.8	ug/kg	12.7	3.8	1	09/25/18 08:51	09/25/18 15:08	56-55-3	
Benzo(a)pyrene	<3.0	ug/kg	10.1	3.0	1	09/25/18 08:51	09/25/18 15:08	50-32-8	
Benzo(b)fluoranthene	<3.4	ug/kg	11.3	3.4	1	09/25/18 08:51	09/25/18 15:08	205-99-2	
Benzo(g,h,i)perylene	<2.4	ug/kg	8.1	2.4	1	09/25/18 08:51	09/25/18 15:08	191-24-2	
Benzo(k)fluoranthene	<3.0	ug/kg	10.0	3.0	1	09/25/18 08:51	09/25/18 15:08	207-08-9	
Chrysene	<4.0	ug/kg	13.4	4.0	1	09/25/18 08:51	09/25/18 15:08	218-01-9	
Dibenz(a,h)anthracene	<2.7	ug/kg	8.9	2.7	1	09/25/18 08:51	09/25/18 15:08	53-70-3	
Fluoranthene	<6.3	ug/kg	20.9	6.3	1	09/25/18 08:51	09/25/18 15:08	206-44-0	
Fluorene	<5.0	ug/kg	16.6	5.0	1	09/25/18 08:51	09/25/18 15:08	86-73-7	
Indeno(1,2,3-cd)pyrene	<2.6	ug/kg	8.8	2.6	1	09/25/18 08:51	09/25/18 15:08	193-39-5	
1-Methylnaphthalene	<4.8	ug/kg	16.1	4.8	1	09/25/18 08:51	09/25/18 15:08	90-12-0	
2-Methylnaphthalene	<6.0	ug/kg	20.1	6.0	1	09/25/18 08:51	09/25/18 15:08	91-57-6	
Naphthalene	11.1J	ug/kg	33.7	10.1	1	09/25/18 08:51	09/25/18 15:08	91-20-3	
Phenanthrene	<14.0	ug/kg	46.6	14.0	1	09/25/18 08:51	09/25/18 15:08	85-01-8	
Pyrene	<5.4	ug/kg	18.0	5.4	1	09/25/18 08:51	09/25/18 15:08	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	63	%	10-115		1	09/25/18 08:51	09/25/18 15:08	321-60-8	
Terphenyl-d14 (S)	56	%	10-121		1	09/25/18 08:51	09/25/18 15:08	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/25/18 08:00	09/25/18 12:48	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	95-63-6	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-4 (2-3.5) Lab ID: 40176305003 Collected: 09/18/18 10:00 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/25/18 08:00	09/25/18 12:48	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/25/18 08:00	09/25/18 12:48	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/25/18 08:00	09/25/18 12:48	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/25/18 08:00	09/25/18 12:48	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	1634-04-4	W
Methylene Chloride	65.8J	ug/kg	72.0	30.0	1	09/25/18 08:00	09/25/18 12:48	75-09-2	B
Naphthalene	<40.0	ug/kg	250	40.0	1	09/25/18 08:00	09/25/18 12:48	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/25/18 08:00	09/25/18 12:48	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	95-47-6	W

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-4 (2-3.5) **Lab ID: 40176305003** Collected: 09/18/18 10:00 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	116	%	57-148		1	09/25/18 08:00	09/25/18 12:48	1868-53-7	
Toluene-d8 (S)	110	%	58-142		1	09/25/18 08:00	09/25/18 12:48	2037-26-5	
4-Bromofluorobenzene (S)	95	%	48-130		1	09/25/18 08:00	09/25/18 12:48	460-00-4	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	16.7	%	0.10	0.10	1		09/25/18 14:48		

Sample: B-12 (2-3.5) **Lab ID: 40176305004** Collected: 09/18/18 10:30 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	7.7	mg/kg	5.6	1.2	1	09/26/18 07:12	09/28/18 10:22	7440-38-2	
Barium	180	mg/kg	0.56	0.17	1	09/26/18 07:12	09/28/18 10:22	7440-39-3	
Cadmium	0.65	mg/kg	0.56	0.15	1	09/26/18 07:12	09/28/18 10:22	7440-43-9	
Chromium	12.2	mg/kg	1.1	0.31	1	09/26/18 07:12	09/28/18 10:22	7440-47-3	
Lead	429	mg/kg	2.2	0.67	1	09/26/18 07:12	09/28/18 10:22	7439-92-1	
Selenium	<1.5	mg/kg	4.9	1.5	1	09/26/18 07:12	09/28/18 10:22	7782-49-2	
Silver	<0.39	mg/kg	1.1	0.39	1	09/26/18 07:12	09/28/18 10:22	7440-22-4	
6010 MET ICP, TCLP Analytical Method: EPA 6010 Preparation Method: EPA 3010 Leachate Method/Date: EPA 1311; 10/15/18 14:35									
Lead	2.9	mg/L	0.098	0.030	1	10/17/18 06:44	10/18/18 11:11	7439-92-1	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.040J	mg/kg	0.13	0.038	1	09/25/18 12:34	09/26/18 09:46	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	4.5J	ug/kg	14.7	4.4	1	09/25/18 08:51	09/26/18 15:40	83-32-9	
Acenaphthylene	4.8J	ug/kg	12.5	3.8	1	09/25/18 08:51	09/26/18 15:40	208-96-8	
Anthracene	19.2J	ug/kg	21.6	6.5	1	09/25/18 08:51	09/26/18 15:40	120-12-7	
Benzo(a)anthracene	82.7	ug/kg	12.1	3.6	1	09/25/18 08:51	09/26/18 15:40	56-55-3	
Benzo(a)pyrene	84.6	ug/kg	9.5	2.9	1	09/25/18 08:51	09/26/18 15:40	50-32-8	
Benzo(b)fluoranthene	166	ug/kg	10.7	3.2	1	09/25/18 08:51	09/26/18 15:40	205-99-2	
Benzo(g,h,i)perylene	57.7	ug/kg	7.7	2.3	1	09/25/18 08:51	09/26/18 15:40	191-24-2	
Benzo(k)fluoranthene	46.2	ug/kg	9.5	2.9	1	09/25/18 08:51	09/26/18 15:40	207-08-9	

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-12 (2-3.5) **Lab ID: 40176305004** Collected: 09/18/18 10:30 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Chrysene	133	ug/kg	12.8	3.8	1	09/25/18 08:51	09/26/18 15:40	218-01-9	
Dibenz(a,h)anthracene	20.8	ug/kg	8.5	2.5	1	09/25/18 08:51	09/26/18 15:40	53-70-3	
Fluoranthene	171	ug/kg	19.8	5.9	1	09/25/18 08:51	09/26/18 15:40	206-44-0	
Fluorene	<4.7	ug/kg	15.7	4.7	1	09/25/18 08:51	09/26/18 15:40	86-73-7	
Indeno(1,2,3-cd)pyrene	44.3	ug/kg	8.4	2.5	1	09/25/18 08:51	09/26/18 15:40	193-39-5	
1-Methylnaphthalene	14.9J	ug/kg	15.3	4.6	1	09/25/18 08:51	09/26/18 15:40	90-12-0	
2-Methylnaphthalene	21.5	ug/kg	19.0	5.7	1	09/25/18 08:51	09/26/18 15:40	91-57-6	
Naphthalene	29.7J	ug/kg	32.0	9.6	1	09/25/18 08:51	09/26/18 15:40	91-20-3	
Phenanthrene	79.9	ug/kg	44.2	13.3	1	09/25/18 08:51	09/26/18 15:40	85-01-8	
Pyrene	122	ug/kg	17.1	5.1	1	09/25/18 08:51	09/26/18 15:40	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	62	%	10-115		1	09/25/18 08:51	09/26/18 15:40	321-60-8	
Terphenyl-d14 (S)	54	%	10-121		1	09/25/18 08:51	09/26/18 15:40	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/25/18 08:00	09/25/18 13:12	120-82-1	W
1,2,4-Trimethylbenzene	35.4J	ug/kg	68.3	28.4	1	09/25/18 08:00	09/25/18 13:12	95-63-6	
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/25/18 08:00	09/25/18 13:12	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	106-93-4	W
1,2-Dichlorobenzene	332	ug/kg	68.3	28.4	1	09/25/18 08:00	09/25/18 13:12	95-50-1	
1,2-Dichloroethane	39.6J	ug/kg	68.3	28.4	1	09/25/18 08:00	09/25/18 13:12	107-06-2	
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	142-28-9	W
1,4-Dichlorobenzene	306	ug/kg	68.3	28.4	1	09/25/18 08:00	09/25/18 13:12	106-46-7	
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/25/18 08:00	09/25/18 13:12	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	56-23-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-12 (2-3.5) **Lab ID: 40176305004** Collected: 09/18/18 10:30 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Chlorobenzene	243	ug/kg	68.3	28.4	1	09/25/18 08:00	09/25/18 13:12	108-90-7	
Chloroethane	<67.0	ug/kg	250	67.0	1	09/25/18 08:00	09/25/18 13:12	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/25/18 08:00	09/25/18 13:12	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	1634-04-4	W
Methylene Chloride	56.8J	ug/kg	68.3	28.4	1	09/25/18 08:00	09/25/18 13:12	75-09-2	B
Naphthalene	430	ug/kg	284	45.6	1	09/25/18 08:00	09/25/18 13:12	91-20-3	
Styrene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	10061-01-5	W
m&p-Xylene	91.0J	ug/kg	137	56.9	1	09/25/18 08:00	09/25/18 13:12	179601-23-1	
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	103-65-1	W
o-Xylene	57.1J	ug/kg	68.3	28.4	1	09/25/18 08:00	09/25/18 13:12	95-47-6	
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	108	%	57-148		1	09/25/18 08:00	09/25/18 13:12	1868-53-7	
Toluene-d8 (S)	105	%	58-142		1	09/25/18 08:00	09/25/18 13:12	2037-26-5	
4-Bromofluorobenzene (S)	87	%	48-130		1	09/25/18 08:00	09/25/18 13:12	460-00-4	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	12.1	%	0.10	0.10	1		09/25/18 14:48		
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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-12 (9.5-11) **Lab ID: 40176305005** Collected: 09/18/18 10:45 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	6.4	mg/kg	5.6	1.2	1	09/26/18 07:12	09/28/18 10:24	7440-38-2	
Barium	57.6	mg/kg	0.56	0.17	1	09/26/18 07:12	09/28/18 10:24	7440-39-3	
Cadmium	0.20J	mg/kg	0.56	0.15	1	09/26/18 07:12	09/28/18 10:24	7440-43-9	
Chromium	14.7	mg/kg	1.1	0.31	1	09/26/18 07:12	09/28/18 10:24	7440-47-3	
Lead	8.0	mg/kg	2.2	0.67	1	09/26/18 07:12	09/28/18 10:24	7439-92-1	
Selenium	<1.5	mg/kg	4.9	1.5	1	09/26/18 07:12	09/28/18 10:24	7782-49-2	
Silver	<0.38	mg/kg	1.1	0.38	1	09/26/18 07:12	09/28/18 10:24	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.037	mg/kg	0.12	0.037	1	09/25/18 12:34	09/26/18 09:48	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<4.6	ug/kg	15.3	4.6	1	09/25/18 08:51	09/25/18 15:25	83-32-9	
Acenaphthylene	<3.9	ug/kg	13.0	3.9	1	09/25/18 08:51	09/25/18 15:25	208-96-8	
Anthracene	<6.8	ug/kg	22.5	6.8	1	09/25/18 08:51	09/25/18 15:25	120-12-7	
Benzo(a)anthracene	<3.7	ug/kg	12.5	3.7	1	09/25/18 08:51	09/25/18 15:25	56-55-3	
Benzo(a)pyrene	<3.0	ug/kg	9.9	3.0	1	09/25/18 08:51	09/25/18 15:25	50-32-8	
Benzo(b)fluoranthene	<3.3	ug/kg	11.1	3.3	1	09/25/18 08:51	09/25/18 15:25	205-99-2	
Benzo(g,h,i)perylene	<2.4	ug/kg	8.0	2.4	1	09/25/18 08:51	09/25/18 15:25	191-24-2	
Benzo(k)fluoranthene	<3.0	ug/kg	9.9	3.0	1	09/25/18 08:51	09/25/18 15:25	207-08-9	
Chrysene	<4.0	ug/kg	13.2	4.0	1	09/25/18 08:51	09/25/18 15:25	218-01-9	
Dibenz(a,h)anthracene	<2.6	ug/kg	8.8	2.6	1	09/25/18 08:51	09/25/18 15:25	53-70-3	
Fluoranthene	<6.2	ug/kg	20.6	6.2	1	09/25/18 08:51	09/25/18 15:25	206-44-0	
Fluorene	<4.9	ug/kg	16.3	4.9	1	09/25/18 08:51	09/25/18 15:25	86-73-7	
Indeno(1,2,3-cd)pyrene	<2.6	ug/kg	8.7	2.6	1	09/25/18 08:51	09/25/18 15:25	193-39-5	
1-Methylnaphthalene	<4.8	ug/kg	15.8	4.8	1	09/25/18 08:51	09/25/18 15:25	90-12-0	
2-Methylnaphthalene	<5.9	ug/kg	19.7	5.9	1	09/25/18 08:51	09/25/18 15:25	91-57-6	
Naphthalene	<10	ug/kg	33.2	10	1	09/25/18 08:51	09/25/18 15:25	91-20-3	
Phenanthrene	<13.8	ug/kg	45.9	13.8	1	09/25/18 08:51	09/25/18 15:25	85-01-8	
Pyrene	<5.3	ug/kg	17.7	5.3	1	09/25/18 08:51	09/25/18 15:25	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	65	%	10-115		1	09/25/18 08:51	09/25/18 15:25	321-60-8	
Terphenyl-d14 (S)	60	%	10-121		1	09/25/18 08:51	09/25/18 15:25	1718-51-0	
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	71-55-6	W
1,1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/25/18 08:00	09/25/18 13:35	120-82-1	W

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-12 (9.5-11) **Lab ID: 40176305005** Collected: 09/18/18 10:45 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/25/18 08:00	09/25/18 13:35	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	95-50-1	W
1,2-Dichloroethane	174	ug/kg	71.0	29.6	1	09/25/18 08:00	09/25/18 13:35	107-06-2	
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/25/18 08:00	09/25/18 13:35	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/25/18 08:00	09/25/18 13:35	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/25/18 08:00	09/25/18 13:35	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	1634-04-4	W
Methylene Chloride	66.0J	ug/kg	71.0	29.6	1	09/25/18 08:00	09/25/18 13:35	75-09-2	B
Naphthalene	<40.0	ug/kg	250	40.0	1	09/25/18 08:00	09/25/18 13:35	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/25/18 08:00	09/25/18 13:35	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	103-65-1	W

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-12 (9.5-11) **Lab ID: 40176305005** Collected: 09/18/18 10:45 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	115	%	57-148		1	09/25/18 08:00	09/25/18 13:35	1868-53-7	
Toluene-d8 (S)	109	%	58-142		1	09/25/18 08:00	09/25/18 13:35	2037-26-5	
4-Bromofluorobenzene (S)	90	%	48-130		1	09/25/18 08:00	09/25/18 13:35	460-00-4	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	15.5	%	0.10	0.10	1		09/25/18 14:48		

Sample: B-16 (2-3.5) **Lab ID: 40176305006** Collected: 09/18/18 11:00 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	5.4	mg/kg	5.3	1.1	1	09/26/18 07:12	09/28/18 10:27	7440-38-2	
Barium	52.3	mg/kg	0.53	0.16	1	09/26/18 07:12	09/28/18 10:27	7440-39-3	
Cadmium	0.20J	mg/kg	0.53	0.14	1	09/26/18 07:12	09/28/18 10:27	7440-43-9	
Chromium	15.9	mg/kg	1.1	0.30	1	09/26/18 07:12	09/28/18 10:27	7440-47-3	
Lead	7.9	mg/kg	2.1	0.64	1	09/26/18 07:12	09/28/18 10:27	7439-92-1	
Selenium	<1.4	mg/kg	4.6	1.4	1	09/26/18 07:12	09/28/18 10:27	7782-49-2	
Silver	<0.37	mg/kg	1.1	0.37	1	09/26/18 07:12	09/28/18 10:27	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.038	mg/kg	0.13	0.038	1	09/25/18 12:34	09/26/18 09:50	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<4.6	ug/kg	15.2	4.6	1	09/25/18 08:51	09/25/18 15:42	83-32-9	
Acenaphthylene	<3.9	ug/kg	13.0	3.9	1	09/25/18 08:51	09/25/18 15:42	208-96-8	
Anthracene	<6.7	ug/kg	22.4	6.7	1	09/25/18 08:51	09/25/18 15:42	120-12-7	
Benzo(a)anthracene	<3.7	ug/kg	12.5	3.7	1	09/25/18 08:51	09/25/18 15:42	56-55-3	
Benzo(a)pyrene	<3.0	ug/kg	9.9	3.0	1	09/25/18 08:51	09/25/18 15:42	50-32-8	
Benzo(b)fluoranthene	<3.3	ug/kg	11.1	3.3	1	09/25/18 08:51	09/25/18 15:42	205-99-2	
Benzo(g,h,i)perylene	<2.4	ug/kg	8.0	2.4	1	09/25/18 08:51	09/25/18 15:42	191-24-2	
Benzo(k)fluoranthene	<3.0	ug/kg	9.9	3.0	1	09/25/18 08:51	09/25/18 15:42	207-08-9	
Chrysene	<4.0	ug/kg	13.2	4.0	1	09/25/18 08:51	09/25/18 15:42	218-01-9	
Dibenz(a,h)anthracene	<2.6	ug/kg	8.8	2.6	1	09/25/18 08:51	09/25/18 15:42	53-70-3	
Fluoranthene	<6.2	ug/kg	20.6	6.2	1	09/25/18 08:51	09/25/18 15:42	206-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40176305

Sample: B-16 (2-3.5) **Lab ID: 40176305006** Collected: 09/18/18 11:00 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Fluorene	<4.9	ug/kg	16.3	4.9	1	09/25/18 08:51	09/25/18 15:42	86-73-7	
Indeno(1,2,3-cd)pyrene	<2.6	ug/kg	8.7	2.6	1	09/25/18 08:51	09/25/18 15:42	193-39-5	
1-Methylnaphthalene	<4.8	ug/kg	15.8	4.8	1	09/25/18 08:51	09/25/18 15:42	90-12-0	
2-Methylnaphthalene	<5.9	ug/kg	19.7	5.9	1	09/25/18 08:51	09/25/18 15:42	91-57-6	
Naphthalene	<9.9	ug/kg	33.2	9.9	1	09/25/18 08:51	09/25/18 15:42	91-20-3	
Phenanthrene	<13.8	ug/kg	45.8	13.8	1	09/25/18 08:51	09/25/18 15:42	85-01-8	
Pyrene	<5.3	ug/kg	17.7	5.3	1	09/25/18 08:51	09/25/18 15:42	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	46	%	10-115		1	09/25/18 08:51	09/25/18 15:42	321-60-8	
Terphenyl-d14 (S)	50	%	10-121		1	09/25/18 08:51	09/25/18 15:42	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/25/18 08:00	09/25/18 13:58	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/25/18 08:00	09/25/18 13:58	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/25/18 08:00	09/25/18 13:58	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/25/18 08:00	09/25/18 13:58	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/25/18 08:00	09/25/18 13:58	67-66-3	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40176305

Sample: B-16 (2-3.5) **Lab ID: 40176305006** Collected: 09/18/18 11:00 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	1634-04-4	W
Methylene Chloride	56.3J	ug/kg	70.8	29.5	1	09/25/18 08:00	09/25/18 13:58	75-09-2	B
Naphthalene	<40.0	ug/kg	250	40.0	1	09/25/18 08:00	09/25/18 13:58	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/25/18 08:00	09/25/18 13:58	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	109	%	57-148		1	09/25/18 08:00	09/25/18 13:58	1868-53-7	
Toluene-d8 (S)	107	%	58-142		1	09/25/18 08:00	09/25/18 13:58	2037-26-5	
4-Bromofluorobenzene (S)	87	%	48-130		1	09/25/18 08:00	09/25/18 13:58	460-00-4	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	15.3	%	0.10	0.10	1		09/25/18 14:48		

Sample: B-17 (6"-2.5) **Lab ID: 40176305007** Collected: 09/18/18 11:30 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	4.0J	mg/kg	5.4	1.1	1	09/26/18 07:12	09/28/18 10:34	7440-38-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40176305

Sample: B-17 (6"-2.5) **Lab ID: 40176305007** Collected: 09/18/18 11:30 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Barium	11.7	mg/kg	0.54	0.16	1	09/26/18 07:12	09/28/18 10:34	7440-39-3	
Cadmium	<0.14	mg/kg	0.54	0.14	1	09/26/18 07:12	09/28/18 10:34	7440-43-9	
Chromium	8.4	mg/kg	1.1	0.30	1	09/26/18 07:12	09/28/18 10:34	7440-47-3	
Lead	3.8	mg/kg	2.2	0.65	1	09/26/18 07:12	09/28/18 10:34	7439-92-1	
Selenium	<1.4	mg/kg	4.7	1.4	1	09/26/18 07:12	09/28/18 10:34	7782-49-2	
Silver	<0.37	mg/kg	1.1	0.37	1	09/26/18 07:12	09/28/18 10:34	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.035	mg/kg	0.12	0.035	1	09/25/18 12:34	09/26/18 09:53	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<4.3	ug/kg	14.3	4.3	1	09/25/18 08:51	09/26/18 15:58	83-32-9	
Acenaphthylene	<3.7	ug/kg	12.2	3.7	1	09/25/18 08:51	09/26/18 15:58	208-96-8	
Anthracene	<6.3	ug/kg	21.1	6.3	1	09/25/18 08:51	09/26/18 15:58	120-12-7	
Benzo(a)anthracene	20.4	ug/kg	11.8	3.5	1	09/25/18 08:51	09/26/18 15:58	56-55-3	
Benzo(a)pyrene	22.5	ug/kg	9.3	2.8	1	09/25/18 08:51	09/26/18 15:58	50-32-8	
Benzo(b)fluoranthene	33.6	ug/kg	10.4	3.1	1	09/25/18 08:51	09/26/18 15:58	205-99-2	
Benzo(g,h,i)perylene	12.9	ug/kg	7.5	2.3	1	09/25/18 08:51	09/26/18 15:58	191-24-2	
Benzo(k)fluoranthene	14.0	ug/kg	9.3	2.8	1	09/25/18 08:51	09/26/18 15:58	207-08-9	
Chrysene	27.7	ug/kg	12.4	3.7	1	09/25/18 08:51	09/26/18 15:58	218-01-9	
Dibenz(a,h)anthracene	3.7J	ug/kg	8.3	2.5	1	09/25/18 08:51	09/26/18 15:58	53-70-3	
Fluoranthene	53.5	ug/kg	19.3	5.8	1	09/25/18 08:51	09/26/18 15:58	206-44-0	
Fluorene	<4.6	ug/kg	15.3	4.6	1	09/25/18 08:51	09/26/18 15:58	86-73-7	
Indeno(1,2,3-cd)pyrene	10.2	ug/kg	8.1	2.4	1	09/25/18 08:51	09/26/18 15:58	193-39-5	
1-Methylnaphthalene	<4.5	ug/kg	14.9	4.5	1	09/25/18 08:51	09/26/18 15:58	90-12-0	
2-Methylnaphthalene	<5.5	ug/kg	18.5	5.5	1	09/25/18 08:51	09/26/18 15:58	91-57-6	
Naphthalene	<9.3	ug/kg	31.2	9.3	1	09/25/18 08:51	09/26/18 15:58	91-20-3	
Phenanthrene	<12.9	ug/kg	43.0	12.9	1	09/25/18 08:51	09/26/18 15:58	85-01-8	
Pyrene	43.3	ug/kg	16.6	5.0	1	09/25/18 08:51	09/26/18 15:58	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	67	%	10-115		1	09/25/18 08:51	09/26/18 15:58	321-60-8	
Terphenyl-d14 (S)	60	%	10-121		1	09/25/18 08:51	09/26/18 15:58	1718-51-0	
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/25/18 08:00	09/25/18 14:21	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	95-63-6	W

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-17 (6"-2.5) **Lab ID: 40176305007** Collected: 09/18/18 11:30 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/25/18 08:00	09/25/18 14:21	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/25/18 08:00	09/25/18 14:21	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/25/18 08:00	09/25/18 14:21	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/25/18 08:00	09/25/18 14:21	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	1634-04-4	W
Methylene Chloride	67.5	ug/kg	66.6	27.7	1	09/25/18 08:00	09/25/18 14:21	75-09-2	B
Naphthalene	<40.0	ug/kg	250	40.0	1	09/25/18 08:00	09/25/18 14:21	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/25/18 08:00	09/25/18 14:21	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	95-47-6	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-17 (6"-2.5) **Lab ID: 40176305007** Collected: 09/18/18 11:30 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	102	%	57-148		1	09/25/18 08:00	09/25/18 14:21	1868-53-7	
Toluene-d8 (S)	103	%	58-142		1	09/25/18 08:00	09/25/18 14:21	2037-26-5	
4-Bromofluorobenzene (S)	81	%	48-130		1	09/25/18 08:00	09/25/18 14:21	460-00-4	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	9.9	%	0.10	0.10	1		09/25/18 14:48		

Sample: B-18 (6"-2) **Lab ID: 40176305008** Collected: 09/18/18 12:00 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	4.1J	mg/kg	10.2	2.1	2	09/26/18 07:12	10/02/18 18:18	7440-38-2	D3
Barium	14.7	mg/kg	1.0	0.31	2	09/26/18 07:12	10/02/18 18:18	7440-39-3	
Cadmium	<0.27	mg/kg	1.0	0.27	2	09/26/18 07:12	10/02/18 18:18	7440-43-9	D3
Chromium	6.9	mg/kg	2.0	0.57	2	09/26/18 07:12	10/02/18 18:18	7440-47-3	
Lead	4.1	mg/kg	4.1	1.2	2	09/26/18 07:12	10/02/18 18:18	7439-92-1	
Selenium	<2.7	mg/kg	8.9	2.7	2	09/26/18 07:12	10/02/18 18:18	7782-49-2	D3
Silver	<0.70	mg/kg	2.0	0.70	2	09/26/18 07:12	10/02/18 18:18	7440-22-4	D3
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.034	mg/kg	0.11	0.034	1	09/25/18 12:34	09/26/18 09:55	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<4.1	ug/kg	13.7	4.1	1	09/25/18 08:51	09/26/18 16:15	83-32-9	
Acenaphthylene	<3.5	ug/kg	11.6	3.5	1	09/25/18 08:51	09/26/18 16:15	208-96-8	
Anthracene	<6.0	ug/kg	20.1	6.0	1	09/25/18 08:51	09/26/18 16:15	120-12-7	
Benzo(a)anthracene	19.8	ug/kg	11.2	3.4	1	09/25/18 08:51	09/26/18 16:15	56-55-3	
Benzo(a)pyrene	22.5	ug/kg	8.9	2.7	1	09/25/18 08:51	09/26/18 16:15	50-32-8	
Benzo(b)fluoranthene	30.1	ug/kg	10	3.0	1	09/25/18 08:51	09/26/18 16:15	205-99-2	
Benzo(g,h,i)perylene	13.4	ug/kg	7.2	2.2	1	09/25/18 08:51	09/26/18 16:15	191-24-2	
Benzo(k)fluoranthene	13.8	ug/kg	8.9	2.7	1	09/25/18 08:51	09/26/18 16:15	207-08-9	
Chrysene	20.2	ug/kg	11.9	3.6	1	09/25/18 08:51	09/26/18 16:15	218-01-9	
Dibenz(a,h)anthracene	3.3J	ug/kg	7.9	2.4	1	09/25/18 08:51	09/26/18 16:15	53-70-3	
Fluoranthene	37.6	ug/kg	18.4	5.5	1	09/25/18 08:51	09/26/18 16:15	206-44-0	
Fluorene	<4.4	ug/kg	14.6	4.4	1	09/25/18 08:51	09/26/18 16:15	86-73-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-18 (6"-2) **Lab ID: 40176305008** Collected: 09/18/18 12:00 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Indeno(1,2,3-cd)pyrene	10.2	ug/kg	7.8	2.3	1	09/25/18 08:51	09/26/18 16:15	193-39-5	
1-Methylnaphthalene	<4.3	ug/kg	14.2	4.3	1	09/25/18 08:51	09/26/18 16:15	90-12-0	
2-Methylnaphthalene	<5.3	ug/kg	17.7	5.3	1	09/25/18 08:51	09/26/18 16:15	91-57-6	
Naphthalene	<8.9	ug/kg	29.8	8.9	1	09/25/18 08:51	09/26/18 16:15	91-20-3	
Phenanthrene	<12.3	ug/kg	41.1	12.3	1	09/25/18 08:51	09/26/18 16:15	85-01-8	
Pyrene	31.8	ug/kg	15.9	4.8	1	09/25/18 08:51	09/26/18 16:15	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	72	%	10-115		1	09/25/18 08:51	09/26/18 16:15	321-60-8	
Terphenyl-d14 (S)	64	%	10-121		1	09/25/18 08:51	09/26/18 16:15	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/25/18 08:00	09/25/18 14:44	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/25/18 08:00	09/25/18 14:44	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/25/18 08:00	09/25/18 14:44	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/25/18 08:00	09/25/18 14:44	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/25/18 08:00	09/25/18 14:44	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	74-87-3	W

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-18 (6"-2) Lab ID: 40176305008 Collected: 09/18/18 12:00 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	1634-04-4	W
Methylene Chloride	51.6J	ug/kg	63.5	26.4	1	09/25/18 08:00	09/25/18 14:44	75-09-2	B
Naphthalene	<40.0	ug/kg	250	40.0	1	09/25/18 08:00	09/25/18 14:44	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/25/18 08:00	09/25/18 14:44	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	112	%	57-148		1	09/25/18 08:00	09/25/18 14:44	1868-53-7	
Toluene-d8 (S)	108	%	58-142		1	09/25/18 08:00	09/25/18 14:44	2037-26-5	
4-Bromofluorobenzene (S)	83	%	48-130		1	09/25/18 08:00	09/25/18 14:44	460-00-4	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture 5.5 % 0.10 0.10 1 09/25/18 14:48

Sample: B-18 (9.5-11) Lab ID: 40176305009 Collected: 09/18/18 12:15 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	4.9J	mg/kg	10.3	2.2	2	09/26/18 07:12	10/02/18 18:20	7440-38-2	D3
Barium	45.2	mg/kg	1.0	0.31	2	09/26/18 07:12	10/02/18 18:20	7440-39-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-18 (9.5-11) **Lab ID: 40176305009** Collected: 09/18/18 12:15 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Cadmium	<0.27	mg/kg	1.0	0.27	2	09/26/18 07:12	10/02/18 18:20	7440-43-9	D3
Chromium	9.0	mg/kg	2.1	0.57	2	09/26/18 07:12	10/02/18 18:20	7440-47-3	
Lead	5.2	mg/kg	4.1	1.2	2	09/26/18 07:12	10/02/18 18:20	7439-92-1	
Selenium	<2.7	mg/kg	9.0	2.7	2	09/26/18 07:12	10/02/18 18:20	7782-49-2	D3
Silver	<0.71	mg/kg	2.1	0.71	2	09/26/18 07:12	10/02/18 18:20	7440-22-4	D3
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.039	mg/kg	0.13	0.039	1	09/25/18 12:34	09/26/18 09:57	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	5.3J	ug/kg	14.4	4.3	1	09/25/18 08:51	09/26/18 16:32	83-32-9	
Acenaphthylene	<3.7	ug/kg	12.3	3.7	1	09/25/18 08:51	09/26/18 16:32	208-96-8	
Anthracene	12.1J	ug/kg	21.2	6.4	1	09/25/18 08:51	09/26/18 16:32	120-12-7	
Benzo(a)anthracene	19.8	ug/kg	11.8	3.5	1	09/25/18 08:51	09/26/18 16:32	56-55-3	
Benzo(a)pyrene	15.1	ug/kg	9.3	2.8	1	09/25/18 08:51	09/26/18 16:32	50-32-8	
Benzo(b)fluoranthene	24.8	ug/kg	10.5	3.2	1	09/25/18 08:51	09/26/18 16:32	205-99-2	
Benzo(g,h,i)perylene	7.0J	ug/kg	7.6	2.3	1	09/25/18 08:51	09/26/18 16:32	191-24-2	
Benzo(k)fluoranthene	9.8	ug/kg	9.3	2.8	1	09/25/18 08:51	09/26/18 16:32	207-08-9	
Chrysene	26.9	ug/kg	12.5	3.8	1	09/25/18 08:51	09/26/18 16:32	218-01-9	
Dibenz(a,h)anthracene	<2.5	ug/kg	8.3	2.5	1	09/25/18 08:51	09/26/18 16:32	53-70-3	
Fluoranthene	78.1	ug/kg	19.4	5.8	1	09/25/18 08:51	09/26/18 16:32	206-44-0	
Fluorene	5.4J	ug/kg	15.4	4.6	1	09/25/18 08:51	09/26/18 16:32	86-73-7	
Indeno(1,2,3-cd)pyrene	5.9J	ug/kg	8.2	2.5	1	09/25/18 08:51	09/26/18 16:32	193-39-5	
1-Methylnaphthalene	<4.5	ug/kg	14.9	4.5	1	09/25/18 08:51	09/26/18 16:32	90-12-0	
2-Methylnaphthalene	<5.6	ug/kg	18.6	5.6	1	09/25/18 08:51	09/26/18 16:32	91-57-6	
Naphthalene	<9.4	ug/kg	31.3	9.4	1	09/25/18 08:51	09/26/18 16:32	91-20-3	
Phenanthrene	50.8	ug/kg	43.3	13.0	1	09/25/18 08:51	09/26/18 16:32	85-01-8	
Pyrene	51.9	ug/kg	16.7	5.0	1	09/25/18 08:51	09/26/18 16:32	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	63	%	10-115		1	09/25/18 08:51	09/26/18 16:32	321-60-8	
Terphenyl-d14 (S)	59	%	10-121		1	09/25/18 08:51	09/26/18 16:32	1718-51-0	
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/25/18 08:00	09/25/18 15:07	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/25/18 08:00	09/25/18 15:07	96-12-8	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-18 (9.5-11) **Lab ID: 40176305009** Collected: 09/18/18 12:15 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/25/18 08:00	09/25/18 15:07	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/25/18 08:00	09/25/18 15:07	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/25/18 08:00	09/25/18 15:07	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	1634-04-4	W
Methylene Chloride	63.8J	ug/kg	66.9	27.9	1	09/25/18 08:00	09/25/18 15:07	75-09-2	B
Naphthalene	<40.0	ug/kg	250	40.0	1	09/25/18 08:00	09/25/18 15:07	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/25/18 08:00	09/25/18 15:07	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	99-87-6	W

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-18 (9.5-11) **Lab ID: 40176305009** Collected: 09/18/18 12:15 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	106	%	57-148		1	09/25/18 08:00	09/25/18 15:07	1868-53-7	
Toluene-d8 (S)	101	%	58-142		1	09/25/18 08:00	09/25/18 15:07	2037-26-5	
4-Bromofluorobenzene (S)	82	%	48-130		1	09/25/18 08:00	09/25/18 15:07	460-00-4	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	10.3	%	0.10	0.10	1		09/25/18 14:49		

Sample: B-19 (6"-3.5) **Lab ID: 40176305010** Collected: 09/18/18 12:30 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	5.3J	mg/kg	10.8	2.3	2	09/26/18 07:12	10/02/18 18:23	7440-38-2	D3
Barium	12.9	mg/kg	1.1	0.32	2	09/26/18 07:12	10/02/18 18:23	7440-39-3	
Cadmium	<0.29	mg/kg	1.1	0.29	2	09/26/18 07:12	10/02/18 18:23	7440-43-9	D3
Chromium	7.6	mg/kg	2.2	0.60	2	09/26/18 07:12	10/02/18 18:23	7440-47-3	
Lead	1.9J	mg/kg	4.3	1.3	2	09/26/18 07:12	10/02/18 18:23	7439-92-1	D3
Selenium	<2.8	mg/kg	9.4	2.8	2	09/26/18 07:12	10/02/18 18:23	7782-49-2	D3
Silver	<0.74	mg/kg	2.2	0.74	2	09/26/18 07:12	10/02/18 18:23	7440-22-4	D3
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.039	mg/kg	0.13	0.039	1	09/25/18 12:34	09/26/18 09:59	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	12.7J	ug/kg	14.7	4.4	1	09/25/18 08:51	09/26/18 16:50	83-32-9	
Acenaphthylene	5.4J	ug/kg	12.6	3.8	1	09/25/18 08:51	09/26/18 16:50	208-96-8	
Anthracene	44.9	ug/kg	21.7	6.5	1	09/25/18 08:51	09/26/18 16:50	120-12-7	
Benzo(a)anthracene	136	ug/kg	12.1	3.6	1	09/25/18 08:51	09/26/18 16:50	56-55-3	
Benzo(a)pyrene	142	ug/kg	9.6	2.9	1	09/25/18 08:51	09/26/18 16:50	50-32-8	
Benzo(b)fluoranthene	234	ug/kg	10.7	3.2	1	09/25/18 08:51	09/26/18 16:50	205-99-2	
Benzo(g,h,i)perylene	61.2	ug/kg	7.7	2.3	1	09/25/18 08:51	09/26/18 16:50	191-24-2	
Benzo(k)fluoranthene	77.4	ug/kg	9.5	2.9	1	09/25/18 08:51	09/26/18 16:50	207-08-9	
Chrysene	173	ug/kg	12.8	3.9	1	09/25/18 08:51	09/26/18 16:50	218-01-9	
Dibenz(a,h)anthracene	15.9	ug/kg	8.5	2.6	1	09/25/18 08:51	09/26/18 16:50	53-70-3	
Fluoranthene	360	ug/kg	19.9	5.9	1	09/25/18 08:51	09/26/18 16:50	206-44-0	
Fluorene	11.3J	ug/kg	15.8	4.7	1	09/25/18 08:51	09/26/18 16:50	86-73-7	
Indeno(1,2,3-cd)pyrene	41.2	ug/kg	8.4	2.5	1	09/25/18 08:51	09/26/18 16:50	193-39-5	

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-19 (6"-3.5) **Lab ID: 40176305010** Collected: 09/18/18 12:30 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
1-Methylnaphthalene	13.7J	ug/kg	15.3	4.6	1	09/25/18 08:51	09/26/18 16:50	90-12-0	
2-Methylnaphthalene	20.9	ug/kg	19.1	5.7	1	09/25/18 08:51	09/26/18 16:50	91-57-6	
Naphthalene	<9.6	ug/kg	32.1	9.6	1	09/25/18 08:51	09/26/18 16:50	91-20-3	
Phenanthrene	212	ug/kg	44.3	13.3	1	09/25/18 08:51	09/26/18 16:50	85-01-8	
Pyrene	271	ug/kg	17.1	5.2	1	09/25/18 08:51	09/26/18 16:50	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	65	%	10-115		1	09/25/18 08:51	09/26/18 16:50	321-60-8	
Terphenyl-d14 (S)	60	%	10-121		1	09/25/18 08:51	09/26/18 16:50	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/25/18 08:00	09/25/18 15:30	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/25/18 08:00	09/25/18 15:30	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/25/18 08:00	09/25/18 15:30	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/25/18 08:00	09/25/18 15:30	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/25/18 08:00	09/25/18 15:30	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	124-48-1	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-19 (6"-3.5) **Lab ID: 40176305010** Collected: 09/18/18 12:30 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	1634-04-4	W
Methylene Chloride	57.3J	ug/kg	68.6	28.6	1	09/25/18 08:00	09/25/18 15:30	75-09-2	B
Naphthalene	<40.0	ug/kg	250	40.0	1	09/25/18 08:00	09/25/18 15:30	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/25/18 08:00	09/25/18 15:30	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	102	%	57-148		1	09/25/18 08:00	09/25/18 15:30	1868-53-7	
Toluene-d8 (S)	100	%	58-142		1	09/25/18 08:00	09/25/18 15:30	2037-26-5	
4-Bromofluorobenzene (S)	81	%	48-130		1	09/25/18 08:00	09/25/18 15:30	460-00-4	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture **12.5** % 0.10 0.10 1 09/25/18 14:49

Sample: B-20 (6"-3.5) **Lab ID: 40176305011** Collected: 09/18/18 13:00 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	5.9J	mg/kg	10.5	2.2	2	09/26/18 07:12	10/02/18 18:25	7440-38-2	D3
Barium	8.9	mg/kg	1.0	0.31	2	09/26/18 07:12	10/02/18 18:25	7440-39-3	
Cadmium	<0.28	mg/kg	1.0	0.28	2	09/26/18 07:12	10/02/18 18:25	7440-43-9	D3

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-20 (6"-3.5) **Lab ID: 40176305011** Collected: 09/18/18 13:00 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Chromium	4.5	mg/kg	2.1	0.58	2	09/26/18 07:12	10/02/18 18:25	7440-47-3	
Lead	7.0	mg/kg	4.2	1.3	2	09/26/18 07:12	10/02/18 18:25	7439-92-1	
Selenium	<2.7	mg/kg	9.1	2.7	2	09/26/18 07:12	10/02/18 18:25	7782-49-2	D3
Silver	<0.72	mg/kg	2.1	0.72	2	09/26/18 07:12	10/02/18 18:25	7440-22-4	D3
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.034	mg/kg	0.11	0.034	1	09/25/18 12:34	09/26/18 10:02	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<4.1	ug/kg	13.7	4.1	1	09/25/18 08:51	09/26/18 17:07	83-32-9	
Acenaphthylene	<3.5	ug/kg	11.7	3.5	1	09/25/18 08:51	09/26/18 17:07	208-96-8	
Anthracene	7.9J	ug/kg	20.2	6.1	1	09/25/18 08:51	09/26/18 17:07	120-12-7	
Benzo(a)anthracene	26.1	ug/kg	11.3	3.4	1	09/25/18 08:51	09/26/18 17:07	56-55-3	
Benzo(a)pyrene	26.5	ug/kg	8.9	2.7	1	09/25/18 08:51	09/26/18 17:07	50-32-8	
Benzo(b)fluoranthene	41.4	ug/kg	10.0	3.0	1	09/25/18 08:51	09/26/18 17:07	205-99-2	
Benzo(g,h,i)perylene	10.5	ug/kg	7.2	2.2	1	09/25/18 08:51	09/26/18 17:07	191-24-2	
Benzo(k)fluoranthene	14.6	ug/kg	8.9	2.7	1	09/25/18 08:51	09/26/18 17:07	207-08-9	
Chrysene	34.1	ug/kg	11.9	3.6	1	09/25/18 08:51	09/26/18 17:07	218-01-9	
Dibenz(a,h)anthracene	2.8J	ug/kg	7.9	2.4	1	09/25/18 08:51	09/26/18 17:07	53-70-3	
Fluoranthene	60.9	ug/kg	18.5	5.5	1	09/25/18 08:51	09/26/18 17:07	206-44-0	
Fluorene	<4.4	ug/kg	14.7	4.4	1	09/25/18 08:51	09/26/18 17:07	86-73-7	
Indeno(1,2,3-cd)pyrene	7.4J	ug/kg	7.8	2.3	1	09/25/18 08:51	09/26/18 17:07	193-39-5	
1-Methylnaphthalene	<4.3	ug/kg	14.3	4.3	1	09/25/18 08:51	09/26/18 17:07	90-12-0	
2-Methylnaphthalene	<5.3	ug/kg	17.8	5.3	1	09/25/18 08:51	09/26/18 17:07	91-57-6	
Naphthalene	<9.0	ug/kg	29.9	9.0	1	09/25/18 08:51	09/26/18 17:07	91-20-3	
Phenanthrene	32.6J	ug/kg	41.3	12.4	1	09/25/18 08:51	09/26/18 17:07	85-01-8	
Pyrene	46.9	ug/kg	16.0	4.8	1	09/25/18 08:51	09/26/18 17:07	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	65	%	10-115		1	09/25/18 08:51	09/26/18 17:07	321-60-8	
Terphenyl-d14 (S)	60	%	10-121		1	09/25/18 08:51	09/26/18 17:07	1718-51-0	
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/25/18 08:00	09/25/18 16:06	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/25/18 08:00	09/25/18 16:06	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	106-93-4	W

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-20 (6"-3.5) Lab ID: 40176305011 Collected: 09/18/18 13:00 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/25/18 08:00	09/25/18 16:06	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/25/18 08:00	09/25/18 16:06	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/25/18 08:00	09/25/18 16:06	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	1634-04-4	W
Methylene Chloride	44.0J	ug/kg	63.9	26.6	1	09/25/18 08:00	09/25/18 16:06	75-09-2	B
Naphthalene	<40.0	ug/kg	250	40.0	1	09/25/18 08:00	09/25/18 16:06	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/25/18 08:00	09/25/18 16:06	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	135-98-8	W

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-20 (6"-3.5) **Lab ID: 40176305011** Collected: 09/18/18 13:00 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	110	%	57-148		1	09/25/18 08:00	09/25/18 16:06	1868-53-7	
Toluene-d8 (S)	103	%	58-142		1	09/25/18 08:00	09/25/18 16:06	2037-26-5	
4-Bromofluorobenzene (S)	85	%	48-130		1	09/25/18 08:00	09/25/18 16:06	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	6.1	%	0.10	0.10	1		09/25/18 14:49		

Sample: B-21 (2-3.5) **Lab ID: 40176305012** Collected: 09/18/18 13:30 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	9.1	mg/kg	5.6	1.2	1	09/26/18 07:12	09/28/18 10:46	7440-38-2	
Barium	660	mg/kg	0.56	0.17	1	09/26/18 07:12	09/28/18 10:46	7440-39-3	
Cadmium	104	mg/kg	0.56	0.15	1	09/26/18 07:12	09/28/18 10:46	7440-43-9	
Chromium	214	mg/kg	1.1	0.31	1	09/26/18 07:12	09/28/18 10:46	7440-47-3	
Lead	8250	mg/kg	225	67.5	100	09/26/18 07:12	10/02/18 18:28	7439-92-1	
Selenium	3.9J	mg/kg	4.9	1.5	1	09/26/18 07:12	09/28/18 10:46	7782-49-2	
Silver	1.1	mg/kg	1.1	0.39	1	09/26/18 07:12	09/28/18 10:46	7440-22-4	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 10/15/18 14:35									
Cadmium	0.28	mg/L	0.025	0.0066	1	10/17/18 06:44	10/18/18 11:18	7440-43-9	
Chromium	<0.013	mg/L	0.050	0.013	1	10/17/18 06:44	10/18/18 11:18	7440-47-3	
Lead	4.1	mg/L	0.098	0.030	1	10/17/18 06:44	10/18/18 11:18	7439-92-1	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.22	mg/kg	0.13	0.038	1	09/25/18 12:34	09/26/18 10:04	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	538	ug/kg	297	89.4	20	09/25/18 09:33	09/26/18 13:06	83-32-9	
Acenaphthylene	90.8J	ug/kg	253	75.9	20	09/25/18 09:33	09/26/18 13:06	208-96-8	
Anthracene	1400	ug/kg	438	132	20	09/25/18 09:33	09/26/18 13:06	120-12-7	
Benzo(a)anthracene	2090	ug/kg	244	73.1	20	09/25/18 09:33	09/26/18 13:06	56-55-3	
Benzo(a)pyrene	2190	ug/kg	193	57.9	20	09/25/18 09:33	09/26/18 13:06	50-32-8	
Benzo(b)fluoranthene	2740	ug/kg	217	65.1	20	09/25/18 09:33	09/26/18 13:06	205-99-2	
Benzo(g,h,i)perylene	1560	ug/kg	156	46.8	20	09/25/18 09:33	09/26/18 13:06	191-24-2	
Benzo(k)fluoranthene	1230	ug/kg	193	57.8	20	09/25/18 09:33	09/26/18 13:06	207-08-9	

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-21 (2-3.5) **Lab ID: 40176305012** Collected: 09/18/18 13:30 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Chrysene	2410	ug/kg	258	77.7	20	09/25/18 09:33	09/26/18 13:06	218-01-9	
Dibenz(a,h)anthracene	306	ug/kg	172	51.5	20	09/25/18 09:33	09/26/18 13:06	53-70-3	
Fluoranthene	6770	ug/kg	401	120	20	09/25/18 09:33	09/26/18 13:06	206-44-0	
Fluorene	756	ug/kg	318	95.4	20	09/25/18 09:33	09/26/18 13:06	86-73-7	
Indeno(1,2,3-cd)pyrene	1190	ug/kg	169	50.7	20	09/25/18 09:33	09/26/18 13:06	193-39-5	
1-Methylnaphthalene	323	ug/kg	309	92.7	20	09/25/18 09:33	09/26/18 13:06	90-12-0	
2-Methylnaphthalene	564	ug/kg	385	115	20	09/25/18 09:33	09/26/18 13:06	91-57-6	
Naphthalene	1090	ug/kg	647	194	20	09/25/18 09:33	09/26/18 13:06	91-20-3	
Phenanthrene	4110	ug/kg	894	268	20	09/25/18 09:33	09/26/18 13:06	85-01-8	
Pyrene	5080	ug/kg	346	104	20	09/25/18 09:33	09/26/18 13:06	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	39	%	10-115		20	09/25/18 09:33	09/26/18 13:06	321-60-8	
Terphenyl-d14 (S)	34	%	10-121		20	09/25/18 09:33	09/26/18 13:06	1718-51-0	

8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	96-18-4	W
1,2,4-Trichlorobenzene	102J	ug/kg	288	54.8	1	09/25/18 08:00	09/25/18 16:29	120-82-1	
1,2,4-Trimethylbenzene	77.3	ug/kg	69.2	28.8	1	09/25/18 08:00	09/25/18 16:29	95-63-6	
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/25/18 08:00	09/25/18 16:29	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	106-93-4	W
1,2-Dichlorobenzene	1290	ug/kg	69.2	28.8	1	09/25/18 08:00	09/25/18 16:29	95-50-1	
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	78-87-5	W
1,3,5-Trimethylbenzene	44.4J	ug/kg	69.2	28.8	1	09/25/18 08:00	09/25/18 16:29	108-67-8	
1,3-Dichlorobenzene	88.4	ug/kg	69.2	28.8	1	09/25/18 08:00	09/25/18 16:29	541-73-1	
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	142-28-9	W
1,4-Dichlorobenzene	1170	ug/kg	69.2	28.8	1	09/25/18 08:00	09/25/18 16:29	106-46-7	
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/25/18 08:00	09/25/18 16:29	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	56-23-5	W

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-21 (2-3.5) **Lab ID: 40176305012** Collected: 09/18/18 13:30 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Chlorobenzene	1430	ug/kg	69.2	28.8	1	09/25/18 08:00	09/25/18 16:29	108-90-7	
Chloroethane	<67.0	ug/kg	250	67.0	1	09/25/18 08:00	09/25/18 16:29	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/25/18 08:00	09/25/18 16:29	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	108-20-3	W
Ethylbenzene	130	ug/kg	69.2	28.8	1	09/25/18 08:00	09/25/18 16:29	100-41-4	
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	1634-04-4	W
Methylene Chloride	60.1J	ug/kg	69.2	28.8	1	09/25/18 08:00	09/25/18 16:29	75-09-2	B
Naphthalene	1140	ug/kg	288	46.2	1	09/25/18 08:00	09/25/18 16:29	91-20-3	
Styrene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	127-18-4	W
Toluene	136	ug/kg	69.2	28.8	1	09/25/18 08:00	09/25/18 16:29	108-88-3	
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	10061-01-5	W
m&p-Xylene	254	ug/kg	138	57.6	1	09/25/18 08:00	09/25/18 16:29	179601-23-1	
n-Butylbenzene	40.6J	ug/kg	69.2	28.8	1	09/25/18 08:00	09/25/18 16:29	104-51-8	
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	103-65-1	W
o-Xylene	134	ug/kg	69.2	28.8	1	09/25/18 08:00	09/25/18 16:29	95-47-6	
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	129	%	57-148		1	09/25/18 08:00	09/25/18 16:29	1868-53-7	
Toluene-d8 (S)	127	%	58-142		1	09/25/18 08:00	09/25/18 16:29	2037-26-5	
4-Bromofluorobenzene (S)	106	%	48-130		1	09/25/18 08:00	09/25/18 16:29	460-00-4	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	13.3	%	0.10	0.10	1		09/25/18 14:49		
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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-21 (14.5-16) **Lab ID: 40176305013** Collected: 09/18/18 13:45 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	6.4	mg/kg	5.8	1.2	1	09/26/18 07:12	09/28/18 10:49	7440-38-2	
Barium	61.9	mg/kg	0.58	0.17	1	09/26/18 07:12	09/28/18 10:49	7440-39-3	
Cadmium	0.39J	mg/kg	0.58	0.15	1	09/26/18 07:12	09/28/18 10:49	7440-43-9	
Chromium	16.6	mg/kg	1.2	0.32	1	09/26/18 07:12	09/28/18 10:49	7440-47-3	
Lead	17.9	mg/kg	2.3	0.69	1	09/26/18 07:12	09/28/18 10:49	7439-92-1	
Selenium	<1.5	mg/kg	5.0	1.5	1	09/26/18 07:12	09/28/18 10:49	7782-49-2	
Silver	<0.40	mg/kg	1.2	0.40	1	09/26/18 07:12	09/28/18 10:49	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.036	mg/kg	0.12	0.036	1	09/25/18 12:34	09/26/18 10:06	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	884	ug/kg	382	115	25	09/25/18 09:33	09/26/18 12:31	83-32-9	
Acenaphthylene	207J	ug/kg	326	97.6	25	09/25/18 09:33	09/26/18 12:31	208-96-8	
Anthracene	384J	ug/kg	563	169	25	09/25/18 09:33	09/26/18 12:31	120-12-7	
Benzo(a)anthracene	<93.9	ug/kg	314	93.9	25	09/25/18 09:33	09/26/18 12:31	56-55-3	
Benzo(a)pyrene	<74.4	ug/kg	248	74.4	25	09/25/18 09:33	09/26/18 12:31	50-32-8	
Benzo(b)fluoranthene	<83.6	ug/kg	279	83.6	25	09/25/18 09:33	09/26/18 12:31	205-99-2	
Benzo(g,h,i)perylene	<60.2	ug/kg	201	60.2	25	09/25/18 09:33	09/26/18 12:31	191-24-2	
Benzo(k)fluoranthene	<74.3	ug/kg	248	74.3	25	09/25/18 09:33	09/26/18 12:31	207-08-9	
Chrysene	<99.9	ug/kg	332	99.9	25	09/25/18 09:33	09/26/18 12:31	218-01-9	
Dibenz(a,h)anthracene	<66.2	ug/kg	221	66.2	25	09/25/18 09:33	09/26/18 12:31	53-70-3	
Fluoranthene	<154	ug/kg	515	154	25	09/25/18 09:33	09/26/18 12:31	206-44-0	
Fluorene	996	ug/kg	409	123	25	09/25/18 09:33	09/26/18 12:31	86-73-7	
Indeno(1,2,3-cd)pyrene	<65.1	ug/kg	217	65.1	25	09/25/18 09:33	09/26/18 12:31	193-39-5	
1-Methylnaphthalene	9270	ug/kg	397	119	25	09/25/18 09:33	09/26/18 12:31	90-12-0	
2-Methylnaphthalene	16900	ug/kg	495	148	25	09/25/18 09:33	09/26/18 12:31	91-57-6	
Naphthalene	3510	ug/kg	832	249	25	09/25/18 09:33	09/26/18 12:31	91-20-3	
Phenanthrene	3260	ug/kg	1150	345	25	09/25/18 09:33	09/26/18 12:31	85-01-8	
Pyrene	175J	ug/kg	444	134	25	09/25/18 09:33	09/26/18 12:31	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	87	%	10-115		25	09/25/18 09:33	09/26/18 12:31	321-60-8	
Terphenyl-d14 (S)	70	%	10-121		25	09/25/18 09:33	09/26/18 12:31	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	71-55-6	W
1,1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/25/18 08:00	09/25/18 16:52	120-82-1	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-21 (14.5-16) **Lab ID: 40176305013** Collected: 09/18/18 13:45 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/25/18 08:00	09/25/18 16:52	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/25/18 08:00	09/25/18 16:52	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/25/18 08:00	09/25/18 16:52	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/25/18 08:00	09/25/18 16:52	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	1634-04-4	W
Methylene Chloride	49.8J	ug/kg	71.0	29.6	1	09/25/18 08:00	09/25/18 16:52	75-09-2	B
Naphthalene	106J	ug/kg	296	47.4	1	09/25/18 08:00	09/25/18 16:52	91-20-3	
Styrene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/25/18 08:00	09/25/18 16:52	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	103-65-1	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-21 (14.5-16) **Lab ID: 40176305013** Collected: 09/18/18 13:45 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	109	%	57-148		1	09/25/18 08:00	09/25/18 16:52	1868-53-7	
Toluene-d8 (S)	108	%	58-142		1	09/25/18 08:00	09/25/18 16:52	2037-26-5	
4-Bromofluorobenzene (S)	87	%	48-130		1	09/25/18 08:00	09/25/18 16:52	460-00-4	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	15.5	%	0.10	0.10	1		09/25/18 14:49		

Sample: B-23 (6"-2) **Lab ID: 40176305014** Collected: 09/18/18 14:00 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	5.2J	mg/kg	5.4	1.1	1	09/26/18 07:12	09/28/18 10:51	7440-38-2	
Barium	66.8	mg/kg	0.54	0.16	1	09/26/18 07:12	09/28/18 10:51	7440-39-3	
Cadmium	0.36J	mg/kg	0.54	0.14	1	09/26/18 07:12	09/28/18 10:51	7440-43-9	
Chromium	18.2	mg/kg	1.1	0.30	1	09/26/18 07:12	09/28/18 10:51	7440-47-3	
Lead	50.3	mg/kg	2.2	0.65	1	09/26/18 07:12	09/28/18 10:51	7439-92-1	
Selenium	<1.4	mg/kg	4.7	1.4	1	09/26/18 07:12	09/28/18 10:51	7782-49-2	
Silver	<0.37	mg/kg	1.1	0.37	1	09/26/18 07:12	09/28/18 10:51	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.069J	mg/kg	0.12	0.037	1	09/25/18 12:34	09/26/18 10:13	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	185	ug/kg	57.6	17.3	4	09/25/18 09:33	09/26/18 14:49	83-32-9	
Acenaphthylene	34.0J	ug/kg	49.1	14.7	4	09/25/18 09:33	09/26/18 14:49	208-96-8	
Anthracene	322	ug/kg	84.8	25.5	4	09/25/18 09:33	09/26/18 14:49	120-12-7	
Benzo(a)anthracene	729	ug/kg	47.3	14.2	4	09/25/18 09:33	09/26/18 14:49	56-55-3	
Benzo(a)pyrene	744	ug/kg	37.4	11.2	4	09/25/18 09:33	09/26/18 14:49	50-32-8	
Benzo(b)fluoranthene	905	ug/kg	42.0	12.6	4	09/25/18 09:33	09/26/18 14:49	205-99-2	
Benzo(g,h,i)perylene	420	ug/kg	30.2	9.1	4	09/25/18 09:33	09/26/18 14:49	191-24-2	
Benzo(k)fluoranthene	425	ug/kg	37.3	11.2	4	09/25/18 09:33	09/26/18 14:49	207-08-9	
Chrysene	827	ug/kg	50.0	15.1	4	09/25/18 09:33	09/26/18 14:49	218-01-9	
Dibenz(a,h)anthracene	111	ug/kg	33.3	10	4	09/25/18 09:33	09/26/18 14:49	53-70-3	
Fluoranthene	1630	ug/kg	77.7	23.2	4	09/25/18 09:33	09/26/18 14:49	206-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-23 (6"-2) **Lab ID: 40176305014** Collected: 09/18/18 14:00 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Fluorene	26.2J	ug/kg	61.6	18.5	4	09/25/18 09:33	09/26/18 14:49	86-73-7	
Indeno(1,2,3-cd)pyrene	369	ug/kg	32.7	9.8	4	09/25/18 09:33	09/26/18 14:49	193-39-5	
1-Methylnaphthalene	37.7J	ug/kg	59.8	18.0	4	09/25/18 09:33	09/26/18 14:49	90-12-0	
2-Methylnaphthalene	<22.3	ug/kg	74.5	22.3	4	09/25/18 09:33	09/26/18 14:49	91-57-6	
Naphthalene	<37.6	ug/kg	125	37.6	4	09/25/18 09:33	09/26/18 14:49	91-20-3	
Phenanthrene	576	ug/kg	173	52.0	4	09/25/18 09:33	09/26/18 14:49	85-01-8	
Pyrene	1220	ug/kg	67.0	20.1	4	09/25/18 09:33	09/26/18 14:49	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	58	%	10-115		4	09/25/18 09:33	09/26/18 14:49	321-60-8	
Terphenyl-d14 (S)	53	%	10-121		4	09/25/18 09:33	09/26/18 14:49	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/25/18 08:00	09/25/18 19:11	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/25/18 08:00	09/25/18 19:11	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/25/18 08:00	09/25/18 19:11	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/25/18 08:00	09/25/18 19:11	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/25/18 08:00	09/25/18 19:11	67-66-3	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40176305

Sample: B-23 (6"-2) Lab ID: 40176305014 Collected: 09/18/18 14:00 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	1634-04-4	W
Methylene Chloride	64.1J	ug/kg	67.0	27.9	1	09/25/18 08:00	09/25/18 19:11	75-09-2	B
Naphthalene	<40.0	ug/kg	250	40.0	1	09/25/18 08:00	09/25/18 19:11	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/25/18 08:00	09/25/18 19:11	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	116	%	57-148		1	09/25/18 08:00	09/25/18 19:11	1868-53-7	
Toluene-d8 (S)	113	%	58-142		1	09/25/18 08:00	09/25/18 19:11	2037-26-5	
4-Bromofluorobenzene (S)	89	%	48-130		1	09/25/18 08:00	09/25/18 19:11	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	10.4	%	0.10	0.10	1		09/25/18 14:49		

Sample: B-23 (12-13.5) Lab ID: 40176305015 Collected: 09/18/18 14:45 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	4.8J	mg/kg	5.5	1.1	1	09/26/18 07:12	09/28/18 10:54	7440-38-2	

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-23 (12-13.5) **Lab ID: 40176305015** Collected: 09/18/18 14:45 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Barium	75.2	mg/kg	0.55	0.16	1	09/26/18 07:12	09/28/18 10:54	7440-39-3	
Cadmium	0.25J	mg/kg	0.55	0.15	1	09/26/18 07:12	09/28/18 10:54	7440-43-9	
Chromium	20.7	mg/kg	1.1	0.30	1	09/26/18 07:12	09/28/18 10:54	7440-47-3	
Lead	11.7	mg/kg	2.2	0.66	1	09/26/18 07:12	09/28/18 10:54	7439-92-1	
Selenium	<1.4	mg/kg	4.8	1.4	1	09/26/18 07:12	09/28/18 10:54	7782-49-2	
Silver	<0.38	mg/kg	1.1	0.38	1	09/26/18 07:12	09/28/18 10:54	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.037	mg/kg	0.12	0.037	1	09/25/18 12:34	09/26/18 10:16	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<4.7	ug/kg	15.6	4.7	1	09/25/18 09:33	09/26/18 11:40	83-32-9	
Acenaphthylene	<4.0	ug/kg	13.3	4.0	1	09/25/18 09:33	09/26/18 11:40	208-96-8	
Anthracene	<6.9	ug/kg	23.0	6.9	1	09/25/18 09:33	09/26/18 11:40	120-12-7	
Benzo(a)anthracene	5.6J	ug/kg	12.8	3.8	1	09/25/18 09:33	09/26/18 11:40	56-55-3	
Benzo(a)pyrene	<3.0	ug/kg	10.1	3.0	1	09/25/18 09:33	09/26/18 11:40	50-32-8	
Benzo(b)fluoranthene	<3.4	ug/kg	11.4	3.4	1	09/25/18 09:33	09/26/18 11:40	205-99-2	
Benzo(g,h,i)perylene	<2.5	ug/kg	8.2	2.5	1	09/25/18 09:33	09/26/18 11:40	191-24-2	
Benzo(k)fluoranthene	<3.0	ug/kg	10.1	3.0	1	09/25/18 09:33	09/26/18 11:40	207-08-9	
Chrysene	<4.1	ug/kg	13.6	4.1	1	09/25/18 09:33	09/26/18 11:40	218-01-9	
Dibenz(a,h)anthracene	<2.7	ug/kg	9.0	2.7	1	09/25/18 09:33	09/26/18 11:40	53-70-3	
Fluoranthene	6.6J	ug/kg	21.1	6.3	1	09/25/18 09:33	09/26/18 11:40	206-44-0	
Fluorene	<5.0	ug/kg	16.7	5.0	1	09/25/18 09:33	09/26/18 11:40	86-73-7	
Indeno(1,2,3-cd)pyrene	<2.7	ug/kg	8.9	2.7	1	09/25/18 09:33	09/26/18 11:40	193-39-5	
1-Methylnaphthalene	<4.9	ug/kg	16.2	4.9	1	09/25/18 09:33	09/26/18 11:40	90-12-0	
2-Methylnaphthalene	<6.1	ug/kg	20.2	6.1	1	09/25/18 09:33	09/26/18 11:40	91-57-6	
Naphthalene	<10.2	ug/kg	34.0	10.2	1	09/25/18 09:33	09/26/18 11:40	91-20-3	
Phenanthrene	<14.1	ug/kg	47.0	14.1	1	09/25/18 09:33	09/26/18 11:40	85-01-8	
Pyrene	5.8J	ug/kg	18.2	5.5	1	09/25/18 09:33	09/26/18 11:40	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	72	%	10-115		1	09/25/18 09:33	09/26/18 11:40	321-60-8	
Terphenyl-d14 (S)	61	%	10-121		1	09/25/18 09:33	09/26/18 11:40	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/25/18 08:00	09/25/18 17:15	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	95-63-6	W

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-23 (12-13.5) Lab ID: 40176305015 Collected: 09/18/18 14:45 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/25/18 08:00	09/25/18 17:15	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	95-50-1	W
1,2-Dichloroethane	115	ug/kg	72.7	30.3	1	09/25/18 08:00	09/25/18 17:15	107-06-2	
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/25/18 08:00	09/25/18 17:15	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/25/18 08:00	09/25/18 17:15	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/25/18 08:00	09/25/18 17:15	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	1634-04-4	W
Methylene Chloride	59.7J	ug/kg	72.7	30.3	1	09/25/18 08:00	09/25/18 17:15	75-09-2	B
Naphthalene	<40.0	ug/kg	250	40.0	1	09/25/18 08:00	09/25/18 17:15	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/25/18 08:00	09/25/18 17:15	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	95-47-6	W

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-23 (12-13.5) **Lab ID: 40176305015** Collected: 09/18/18 14:45 Received: 09/21/18 15:10 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	103	%	57-148		1	09/25/18 08:00	09/25/18 17:15	1868-53-7	
Toluene-d8 (S)	96	%	58-142		1	09/25/18 08:00	09/25/18 17:15	2037-26-5	
4-Bromofluorobenzene (S)	79	%	48-130		1	09/25/18 08:00	09/25/18 17:15	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	17.4	%	0.10	0.10	1		09/25/18 14:49		

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QUALITY CONTROL DATA

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40176305

QC Batch: 301034 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 40176305001, 40176305002, 40176305003, 40176305004, 40176305005, 40176305006, 40176305007, 40176305008, 40176305009, 40176305010, 40176305011, 40176305012, 40176305013, 40176305014, 40176305015

METHOD BLANK: 1758360 Matrix: Solid
Associated Lab Samples: 40176305001, 40176305002, 40176305003, 40176305004, 40176305005, 40176305006, 40176305007, 40176305008, 40176305009, 40176305010, 40176305011, 40176305012, 40176305013, 40176305014, 40176305015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<1.0	5.0	09/28/18 10:05	
Barium	mg/kg	<0.15	0.50	09/28/18 10:05	
Cadmium	mg/kg	<0.13	0.50	09/28/18 10:05	
Chromium	mg/kg	<0.28	1.0	09/28/18 10:05	
Lead	mg/kg	<0.60	2.0	09/28/18 10:05	
Selenium	mg/kg	<1.3	4.4	09/28/18 10:05	
Silver	mg/kg	<0.34	1.0	09/28/18 10:05	

LABORATORY CONTROL SAMPLE: 1758361

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	50.3	101	80-120	
Barium	mg/kg	50	50.2	100	80-120	
Cadmium	mg/kg	50	49.7	99	80-120	
Chromium	mg/kg	50	50.6	101	80-120	
Lead	mg/kg	50	49.6	99	80-120	
Selenium	mg/kg	50	51.0	102	80-120	
Silver	mg/kg	25	25.1	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1758362 1758363

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		40176305001 Result	Spike Conc.	Spike Conc.	MS Result						MSD Result
Arsenic	mg/kg	8.0	59.7	59.5	63.5	61.7	93	90	75-125	3	20
Barium	mg/kg	72.1	59.7	59.5	136	130	106	98	75-125	4	20
Cadmium	mg/kg	0.27J	59.7	59.5	58.1	57.6	97	96	75-125	1	20
Chromium	mg/kg	20.5	59.7	59.5	78.7	77.2	98	95	75-125	2	20
Lead	mg/kg	10.3	59.7	59.5	64.0	61.9	90	87	75-125	3	20
Selenium	mg/kg	<1.6	59.7	59.5	57.0	56.4	96	95	75-125	1	20
Silver	mg/kg	<0.41	29.8	29.7	29.3	28.6	98	96	75-125	2	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

QC Batch: 303424

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET TCLP

Associated Lab Samples: 40176305004, 40176305012

METHOD BLANK: 1772270

Matrix: Water

Associated Lab Samples: 40176305004, 40176305012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium	mg/L	<0.0013	0.0050	10/18/18 11:07	
Chromium	mg/L	<0.0025	0.010	10/18/18 11:07	
Lead	mg/L	<0.0059	0.020	10/18/18 11:07	

METHOD BLANK: 1770901

Matrix: Solid

Associated Lab Samples: 40176305004, 40176305012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium	mg/L	<0.0066	0.025	10/18/18 11:52	
Chromium	mg/L	<0.013	0.050	10/18/18 11:52	
Lead	mg/L	<0.030	0.098	10/18/18 11:52	

METHOD BLANK: 1770902

Matrix: Solid

Associated Lab Samples: 40176305004, 40176305012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium	mg/L	<0.0066	0.025	10/18/18 12:09	
Chromium	mg/L	<0.013	0.050	10/18/18 12:09	
Lead	mg/L	<0.030	0.098	10/18/18 12:09	

METHOD BLANK: 1770903

Matrix: Solid

Associated Lab Samples: 40176305004, 40176305012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium	mg/L	<0.0066	0.025	10/18/18 12:16	
Chromium	mg/L	<0.013	0.050	10/18/18 12:16	
Lead	mg/L	<0.030	0.098	10/18/18 12:16	

METHOD BLANK: 1770904

Matrix: Solid

Associated Lab Samples: 40176305004, 40176305012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium	mg/L	<0.0013	0.0050	10/18/18 12:24	
Chromium	mg/L	<0.0025	0.010	10/18/18 12:24	

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QUALITY CONTROL DATA

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

METHOD BLANK: 1770904

Matrix: Solid

Associated Lab Samples: 40176305004, 40176305012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/L	<0.0059	0.020	10/18/18 12:24	

LABORATORY CONTROL SAMPLE: 1772271

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium	mg/L	.5	0.45	90	80-120	
Chromium	mg/L	.5	0.50	101	80-120	
Lead	mg/L	.5	0.48	96	80-120	

MATRIX SPIKE SAMPLE: 1772272

Parameter	Units	10451259001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cadmium	mg/L	<0.0066	2.5	2.2	89	75-125	
Chromium	mg/L	<0.013	2.5	2.5	100	75-125	
Lead	mg/L	<0.030	2.5	2.3	91	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1772273 1772274

Parameter	Units	40176305004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium	mg/L	0.028	2.5	2.5	2.3	2.3	90	91	75-125	2	20	
Chromium	mg/L	<0.013	2.5	2.5	2.4	2.5	97	99	75-125	2	20	
Lead	mg/L	2.9	2.5	2.5	5.0	5.1	85	90	75-125	2	20	

MATRIX SPIKE SAMPLE: 1772275

Parameter	Units	40177395001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cadmium	mg/L	0.0080J	2.5	2.2	89	75-125	
Chromium	mg/L	0.015J	2.5	2.5	99	75-125	
Lead	mg/L	<0.030	2.5	2.3	91	75-125	

MATRIX SPIKE SAMPLE: 1772276

Parameter	Units	40177480001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cadmium	mg/L	<0.0066	2.5	2.3	91	75-125	
Chromium	mg/L	<0.013	2.5	2.4	96	75-125	
Lead	mg/L	0.24	2.5	2.5	90	75-125	

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QUALITY CONTROL DATA

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

MATRIX SPIKE SAMPLE: 1772277		40177541001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Cadmium	mg/L	0.030	2.5	2.3	91	75-125	
Chromium	mg/L	<0.013	2.5	2.5	99	75-125	
Lead	mg/L	0.95	2.5	3.4	97	75-125	

MATRIX SPIKE SAMPLE: 1772278		40177546001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Cadmium	mg/L	0.0089J	2.5	2.3	90	75-125	
Chromium	mg/L	2.5	2.5	5.1	100	75-125	
Lead	mg/L	<0.030	2.5	2.3	91	75-125	

MATRIX SPIKE SAMPLE: 1772279		40177595001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Cadmium	mg/L	<0.0066	2.5	2.3	92	75-125	
Chromium	mg/L	0.081	2.5	2.5	97	75-125	
Lead	mg/L	<0.030	2.5	2.3	91	75-125	

MATRIX SPIKE SAMPLE: 1772280		40177596001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Cadmium	mg/L	<0.0066	2.5	2.3	93	75-125	
Chromium	mg/L	<0.013	2.5	2.5	99	75-125	
Lead	mg/L	<0.030	2.5	2.3	92	75-125	

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QUALITY CONTROL DATA

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

METHOD BLANK: 1758936

Matrix: Solid

Associated Lab Samples: 40176305001, 40176305002, 40176305003, 40176305004, 40176305005, 40176305006, 40176305007, 40176305008, 40176305009, 40176305010, 40176305011, 40176305012, 40176305013, 40176305014, 40176305015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/kg	<12.3	50.0	09/25/18 09:29	
Diisopropyl ether	ug/kg	<17.7	50.0	09/25/18 09:29	
Ethylbenzene	ug/kg	<12.4	50.0	09/25/18 09:29	
Hexachloro-1,3-butadiene	ug/kg	<24.5	50.0	09/25/18 09:29	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	09/25/18 09:29	
m&p-Xylene	ug/kg	<34.4	100	09/25/18 09:29	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	09/25/18 09:29	
Methylene Chloride	ug/kg	48.2J	50.0	09/25/18 09:29	
n-Butylbenzene	ug/kg	<10.5	50.0	09/25/18 09:29	
n-Propylbenzene	ug/kg	<11.6	50.0	09/25/18 09:29	
Naphthalene	ug/kg	<40.0	250	09/25/18 09:29	
o-Xylene	ug/kg	<14.0	50.0	09/25/18 09:29	
p-Isopropyltoluene	ug/kg	<12.0	50.0	09/25/18 09:29	
sec-Butylbenzene	ug/kg	<11.9	50.0	09/25/18 09:29	
Styrene	ug/kg	<9.0	50.0	09/25/18 09:29	
tert-Butylbenzene	ug/kg	<9.5	50.0	09/25/18 09:29	
Tetrachloroethene	ug/kg	<12.9	50.0	09/25/18 09:29	
Toluene	ug/kg	<11.2	50.0	09/25/18 09:29	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	09/25/18 09:29	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	09/25/18 09:29	
Trichloroethene	ug/kg	<23.6	50.0	09/25/18 09:29	
Trichlorofluoromethane	ug/kg	<24.7	50.0	09/25/18 09:29	
Vinyl chloride	ug/kg	<21.1	50.0	09/25/18 09:29	
4-Bromofluorobenzene (S)	%	88	48-130	09/25/18 09:29	
Dibromofluoromethane (S)	%	107	57-148	09/25/18 09:29	
Toluene-d8 (S)	%	109	58-142	09/25/18 09:29	

LABORATORY CONTROL SAMPLE: 1758937

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2320	93	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2540	102	68-130	
1,1,2-Trichloroethane	ug/kg	2500	2470	99	70-130	
1,1-Dichloroethane	ug/kg	2500	2420	97	67-132	
1,1-Dichloroethene	ug/kg	2500	2540	101	67-128	
1,2,4-Trichlorobenzene	ug/kg	2500	2590	104	51-131	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2290	92	49-117	
1,2-Dibromoethane (EDB)	ug/kg	2500	2690	108	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2360	95	70-130	
1,2-Dichloroethane	ug/kg	2500	2180	87	65-137	
1,2-Dichloropropane	ug/kg	2500	2380	95	75-126	
1,3-Dichlorobenzene	ug/kg	2500	2320	93	70-130	

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QUALITY CONTROL DATA

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40176305

LABORATORY CONTROL SAMPLE: 1758937

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/kg	2500	2160	86	70-130	
Benzene	ug/kg	2500	2470	99	70-130	
Bromodichloromethane	ug/kg	2500	2310	92	70-130	
Bromoform	ug/kg	2500	2260	90	57-117	
Bromomethane	ug/kg	2500	2330	93	48-135	
Carbon tetrachloride	ug/kg	2500	2350	94	65-133	
Chlorobenzene	ug/kg	2500	2320	93	70-130	
Chloroethane	ug/kg	2500	2770	111	37-165	
Chloroform	ug/kg	2500	2320	93	72-126	
Chloromethane	ug/kg	2500	1660	66	34-120	
cis-1,2-Dichloroethene	ug/kg	2500	2390	96	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2390	96	69-130	
Dibromochloromethane	ug/kg	2500	2480	99	68-130	
Dichlorodifluoromethane	ug/kg	2500	1170	47	22-100	
Ethylbenzene	ug/kg	2500	2410	96	79-121	
Isopropylbenzene (Cumene)	ug/kg	2500	2540	102	70-130	
m&p-Xylene	ug/kg	5000	5170	103	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2440	98	66-129	
Methylene Chloride	ug/kg	2500	2490	100	68-129	
o-Xylene	ug/kg	2500	2500	100	70-130	
Styrene	ug/kg	2500	2430	97	70-130	
Tetrachloroethene	ug/kg	2500	2170	87	70-130	
Toluene	ug/kg	2500	2480	99	80-123	
trans-1,2-Dichloroethene	ug/kg	2500	2610	104	70-130	
trans-1,3-Dichloropropene	ug/kg	2500	2630	105	67-130	
Trichloroethene	ug/kg	2500	2310	92	70-130	
Trichlorofluoromethane	ug/kg	2500	2680	107	64-134	
Vinyl chloride	ug/kg	2500	2090	84	52-122	
4-Bromofluorobenzene (S)	%			99	48-130	
Dibromofluoromethane (S)	%			105	57-148	
Toluene-d8 (S)	%			102	58-142	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1758938 1758939

Parameter	Units	40176305001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
1,1,1-Trichloroethane	ug/kg	<25.0	1490	1490	1290	1330	86	89	62-130	3	20	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1490	1490	1640	1500	110	100	64-137	9	20	
1,1,2-Trichloroethane	ug/kg	<25.0	1490	1490	1520	1470	102	98	70-130	3	20	
1,1-Dichloroethane	ug/kg	<25.0	1490	1490	1370	1460	92	98	65-132	6	20	
1,1-Dichloroethene	ug/kg	<25.0	1490	1490	1170	1380	79	92	50-128	16	21	
1,2,4-Trichlorobenzene	ug/kg	<47.6	1490	1490	1740	1720	113	111	51-148	1	20	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	1490	1490	1470	1300	99	87	43-134	13	23	
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1490	1490	1500	1360	101	91	70-130	10	20	

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QUALITY CONTROL DATA

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1758938		1758939							
Parameter	Units	40176305001	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
1,2-Dichlorobenzene	ug/kg	<25.0	1490	1490	1660	1490	111	100	70-130	11	20
1,2-Dichloroethane	ug/kg	<25.0	1490	1490	1310	1320	88	88	65-139	0	20
1,2-Dichloropropane	ug/kg	<25.0	1490	1490	1350	1520	91	102	74-128	12	20
1,3-Dichlorobenzene	ug/kg	<25.0	1490	1490	1540	1460	103	98	70-130	5	20
1,4-Dichlorobenzene	ug/kg	<25.0	1490	1490	1530	1370	103	92	70-130	11	20
Benzene	ug/kg	<25.0	1490	1490	1430	1440	96	97	66-132	1	20
Bromodichloromethane	ug/kg	<25.0	1490	1490	1370	1500	92	100	69-130	9	20
Bromoform	ug/kg	<25.0	1490	1490	1460	1380	98	92	57-130	6	20
Bromomethane	ug/kg	<69.9	1490	1490	1240	1210	83	81	34-145	2	20
Carbon tetrachloride	ug/kg	<25.0	1490	1490	1290	1260	86	85	54-133	2	20
Chlorobenzene	ug/kg	<25.0	1490	1490	1410	1370	95	92	70-130	3	20
Chloroethane	ug/kg	<67.0	1490	1490	1430	1430	96	96	33-165	0	20
Chloroform	ug/kg	<46.4	1490	1490	1340	1390	90	93	72-128	4	20
Chloromethane	ug/kg	<25.0	1490	1490	656	677	44	45	20-120	3	20
cis-1,2-Dichloroethene	ug/kg	<25.0	1490	1490	1410	1440	95	96	69-130	2	20
cis-1,3-Dichloropropene	ug/kg	<25.0	1490	1490	1350	1490	91	100	65-130	10	20
Dibromochloromethane	ug/kg	<25.0	1490	1490	1500	1430	101	96	65-130	5	20
Dichlorodifluoromethane	ug/kg	<25.0	1490	1490	378	360	25	24	10-109	5	29
Ethylbenzene	ug/kg	<25.0	1490	1490	1420	1440	95	97	63-127	2	20
Isopropylbenzene (Cumene)	ug/kg	<25.0	1490	1490	1460	1380	98	93	66-130	5	20
m&p-Xylene	ug/kg	<50.0	2980	2980	3010	3060	101	103	70-130	1	20
Methyl-tert-butyl ether	ug/kg	<25.0	1490	1490	1480	1490	99	100	62-135	1	20
Methylene Chloride	ug/kg	70.3J	1490	1490	1600	1570	102	101	68-129	2	20
o-Xylene	ug/kg	<25.0	1490	1490	1380	1470	93	98	69-130	6	20
Styrene	ug/kg	<25.0	1490	1490	1460	1470	98	98	70-130	0	20
Tetrachloroethene	ug/kg	<25.0	1490	1490	1280	1270	86	85	70-130	0	20
Toluene	ug/kg	<25.0	1490	1490	1460	1460	98	98	80-123	0	20
trans-1,2-Dichloroethene	ug/kg	<25.0	1490	1490	1410	1510	95	101	70-130	7	20
trans-1,3-Dichloropropene	ug/kg	<25.0	1490	1490	1520	1510	102	101	67-130	1	20
Trichloroethene	ug/kg	<25.0	1490	1490	1320	1380	89	93	70-130	4	20
Trichlorofluoromethane	ug/kg	<25.0	1490	1490	1260	1200	84	80	41-134	5	26
Vinyl chloride	ug/kg	<25.0	1490	1490	855	856	57	57	39-122	0	20
4-Bromofluorobenzene (S)	%						94	88	48-130		
Dibromofluoromethane (S)	%						102	113	57-148		
Toluene-d8 (S)	%						104	101	58-142		

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QUALITY CONTROL DATA

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40176305

QC Batch: 301132 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 40176305001, 40176305002, 40176305003, 40176305004, 40176305005, 40176305006, 40176305007, 40176305008, 40176305009, 40176305010, 40176305011

METHOD BLANK: 1758799 Matrix: Solid
Associated Lab Samples: 40176305001, 40176305002, 40176305003, 40176305004, 40176305005, 40176305006, 40176305007, 40176305008, 40176305009, 40176305010, 40176305011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<4.0	13.4	09/25/18 11:59	
2-Methylnaphthalene	ug/kg	<5.0	16.7	09/25/18 11:59	
Acenaphthene	ug/kg	<3.9	12.9	09/25/18 11:59	
Acenaphthylene	ug/kg	<3.3	11.0	09/25/18 11:59	
Anthracene	ug/kg	<5.7	19.0	09/25/18 11:59	
Benzo(a)anthracene	ug/kg	<3.2	10.6	09/25/18 11:59	
Benzo(a)pyrene	ug/kg	<2.5	8.4	09/25/18 11:59	
Benzo(b)fluoranthene	ug/kg	<2.8	9.4	09/25/18 11:59	
Benzo(g,h,i)perylene	ug/kg	<2.0	6.8	09/25/18 11:59	
Benzo(k)fluoranthene	ug/kg	<2.5	8.4	09/25/18 11:59	
Chrysene	ug/kg	<3.4	11.2	09/25/18 11:59	
Dibenz(a,h)anthracene	ug/kg	<2.2	7.4	09/25/18 11:59	
Fluoranthene	ug/kg	<5.2	17.4	09/25/18 11:59	
Fluorene	ug/kg	<4.1	13.8	09/25/18 11:59	
Indeno(1,2,3-cd)pyrene	ug/kg	<2.2	7.3	09/25/18 11:59	
Naphthalene	ug/kg	<8.4	28.1	09/25/18 11:59	
Phenanthrene	ug/kg	<11.6	38.8	09/25/18 11:59	
Pyrene	ug/kg	<4.5	15.0	09/25/18 11:59	
2-Fluorobiphenyl (S)	%	77	10-115	09/25/18 11:59	
Terphenyl-d14 (S)	%	71	10-121	09/25/18 11:59	

LABORATORY CONTROL SAMPLE: 1758800

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	265	79	45-103	
2-Methylnaphthalene	ug/kg	333	250	75	43-98	
Acenaphthene	ug/kg	333	252	76	43-100	
Acenaphthylene	ug/kg	333	236	71	40-100	
Anthracene	ug/kg	333	248	74	50-113	
Benzo(a)anthracene	ug/kg	333	237	71	49-102	
Benzo(a)pyrene	ug/kg	333	267	80	51-105	
Benzo(b)fluoranthene	ug/kg	333	268	80	49-105	
Benzo(g,h,i)perylene	ug/kg	333	223	67	34-113	
Benzo(k)fluoranthene	ug/kg	333	279	84	54-110	
Chrysene	ug/kg	333	268	80	55-116	
Dibenz(a,h)anthracene	ug/kg	333	217	65	45-108	
Fluoranthene	ug/kg	333	271	81	50-118	
Fluorene	ug/kg	333	256	77	41-103	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

LABORATORY CONTROL SAMPLE: 1758800

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Indeno(1,2,3-cd)pyrene	ug/kg	333	223	67	43-115	
Naphthalene	ug/kg	333	237	71	44-92	
Phenanthrene	ug/kg	333	259	78	51-104	
Pyrene	ug/kg	333	247	74	51-106	
2-Fluorobiphenyl (S)	%			73	10-115	
Terphenyl-d14 (S)	%			66	10-121	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1758801 1758802

Parameter	Units	40175843006		1758801		1758802		% Rec	% Rec	% Rec Limits	Max RPD	Qual
		MS Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec					
1-Methylnaphthalene	ug/kg	1530	366	368	1180J	1120J	-95	-111	21-105	30	M6	
2-Methylnaphthalene	ug/kg	3460	366	368	2310	2250	-314	-328	18-103	2	29 M6	
Acenaphthene	ug/kg	<341	366	368	<341	<342	68	62	31-100		28	
Acenaphthylene	ug/kg	<290	366	368	<290	<290	68	61	30-100		27	
Anthracene	ug/kg	<502	366	368	<502	<503	67	58	27-113		30	
Benzo(a)anthracene	ug/kg	<279	366	368	362J	339J	99	92	28-102		30	
Benzo(a)pyrene	ug/kg	<221	366	368	221J	<221	60	50	27-105		32	
Benzo(b)fluoranthene	ug/kg	<248	366	368	258J	<249	70	62	24-109		37	
Benzo(g,h,i)perylene	ug/kg	<179	366	368	<179	<179	0	0	10-113		38 M6	
Benzo(k)fluoranthene	ug/kg	<221	366	368	267J	<221	73	57	35-110		31	
Chrysene	ug/kg	<296	366	368	<297	<297	80	72	29-116		29	
Dibenz(a,h)anthracene	ug/kg	<197	366	368	<197	<197	0	0	22-108		32 M6	
Fluoranthene	ug/kg	<458	366	368	<458	<459	82	74	27-118		34	
Fluorene	ug/kg	<364	366	368	<364	<365	73	65	31-103		28	
Indeno(1,2,3-cd)pyrene	ug/kg	<193	366	368	<193	<194	0	0	18-115		33 M6	
Naphthalene	ug/kg	24400	366	368	15700	15600	-2390	-2410	34-92	1	31 M6	
Phenanthrene	ug/kg	<1020	366	368	<1020	<1030	56	48	28-104		32	
Pyrene	ug/kg	<397	366	368	<397	<398	80	76	13-117		40	
2-Fluorobiphenyl (S)	%						67	61	10-115			
Terphenyl-d14 (S)	%						61	57	10-121			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40176305

QC Batch: 301133 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 40176305012, 40176305013, 40176305014, 40176305015

METHOD BLANK: 1758803 Matrix: Solid
Associated Lab Samples: 40176305012, 40176305013, 40176305014, 40176305015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<4.0	13.4	09/25/18 14:00	
2-Methylnaphthalene	ug/kg	<5.0	16.7	09/25/18 14:00	
Acenaphthene	ug/kg	<3.9	12.9	09/25/18 14:00	
Acenaphthylene	ug/kg	<3.3	11.0	09/25/18 14:00	
Anthracene	ug/kg	<5.7	19.0	09/25/18 14:00	
Benzo(a)anthracene	ug/kg	<3.2	10.6	09/25/18 14:00	
Benzo(a)pyrene	ug/kg	<2.5	8.4	09/25/18 14:00	
Benzo(b)fluoranthene	ug/kg	<2.8	9.4	09/25/18 14:00	
Benzo(g,h,i)perylene	ug/kg	<2.0	6.8	09/25/18 14:00	
Benzo(k)fluoranthene	ug/kg	<2.5	8.4	09/25/18 14:00	
Chrysene	ug/kg	<3.4	11.2	09/25/18 14:00	
Dibenz(a,h)anthracene	ug/kg	<2.2	7.5	09/25/18 14:00	
Fluoranthene	ug/kg	<5.2	17.4	09/25/18 14:00	
Fluorene	ug/kg	<4.1	13.8	09/25/18 14:00	
Indeno(1,2,3-cd)pyrene	ug/kg	<2.2	7.3	09/25/18 14:00	
Naphthalene	ug/kg	<8.4	28.1	09/25/18 14:00	
Phenanthrene	ug/kg	<11.7	38.8	09/25/18 14:00	
Pyrene	ug/kg	<4.5	15.0	09/25/18 14:00	
2-Fluorobiphenyl (S)	%	70	10-115	09/25/18 14:00	
Terphenyl-d14 (S)	%	61	10-121	09/25/18 14:00	

LABORATORY CONTROL SAMPLE: 1758804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	189	57	45-103	
2-Methylnaphthalene	ug/kg	333	182	54	43-98	
Acenaphthene	ug/kg	333	190	57	43-100	
Acenaphthylene	ug/kg	333	175	52	40-100	
Anthracene	ug/kg	333	199	60	50-113	
Benzo(a)anthracene	ug/kg	333	204	61	49-102	
Benzo(a)pyrene	ug/kg	333	224	67	51-105	
Benzo(b)fluoranthene	ug/kg	333	220	66	49-105	
Benzo(g,h,i)perylene	ug/kg	333	203	61	34-113	
Benzo(k)fluoranthene	ug/kg	333	246	74	54-110	
Chrysene	ug/kg	333	229	69	55-116	
Dibenz(a,h)anthracene	ug/kg	333	169	51	45-108	
Fluoranthene	ug/kg	333	223	67	50-118	
Fluorene	ug/kg	333	194	58	41-103	
Indeno(1,2,3-cd)pyrene	ug/kg	333	189	57	43-115	
Naphthalene	ug/kg	333	185	56	44-92	

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QUALITY CONTROL DATA

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

LABORATORY CONTROL SAMPLE: 1758804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	333	209	63	51-104	
Pyrene	ug/kg	333	210	63	51-106	
2-Fluorobiphenyl (S)	%			55	10-115	
Terphenyl-d14 (S)	%			56	10-121	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1758805 1758806

Parameter	Units	40176256003		1758805		1758806		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result							
1-Methylnaphthalene	ug/kg	<4.8	393	393	219	234	55	59	21-105	6	30			
2-Methylnaphthalene	ug/kg	<5.9	393	393	208	221	52	55	18-103	6	29			
Acenaphthene	ug/kg	<0.0046 mg/kg	393	393	232	242	59	61	31-100	4	28			
Acenaphthylene	ug/kg	<0.0039 mg/kg	393	393	212	218	54	55	30-100	3	27			
Anthracene	ug/kg	<0.0067 mg/kg	393	393	228	226	58	57	27-113	1	30			
Benzo(a)anthracene	ug/kg	<0.0037 mg/kg	393	393	218	216	55	55	28-102	1	30			
Benzo(a)pyrene	ug/kg	<0.0030 mg/kg	393	393	236	234	60	59	27-105	1	32			
Benzo(b)fluoranthene	ug/kg	<0.0033 mg/kg	393	393	243	232	62	59	24-109	5	37			
Benzo(g,h,i)perylene	ug/kg	<0.0024 mg/kg	393	393	221	219	56	56	10-113	1	38			
Benzo(k)fluoranthene	ug/kg	<0.0030 mg/kg	393	393	247	256	63	65	35-110	3	31			
Chrysene	ug/kg	<0.0040 mg/kg	393	393	248	249	63	63	29-116	0	29			
Dibenz(a,h)anthracene	ug/kg	<0.0026 mg/kg	393	393	196	190	50	48	22-108	3	32			
Fluoranthene	ug/kg	<0.0062 mg/kg	393	393	257	255	65	65	27-118	1	34			
Fluorene	ug/kg	<0.0049 mg/kg	393	393	234	235	60	60	31-103	0	28			
Indeno(1,2,3-cd)pyrene	ug/kg	<0.0026 mg/kg	393	393	214	209	54	53	18-115	2	33			
Naphthalene	ug/kg	0.022J mg/kg	393	393	219	222	50	51	34-92	1	31			
Phenanthrene	ug/kg	<0.014 mg/kg	393	393	245	243	62	62	28-104	1	32			
Pyrene	ug/kg	<0.0053 mg/kg	393	393	244	243	62	62	13-117	0	40			
2-Fluorobiphenyl (S)	%						53	59	10-115					
Terphenyl-d14 (S)	%						53	54	10-121					

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QUALITY CONTROL DATA

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

QC Batch:	301217	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	40176305001, 40176305002, 40176305003, 40176305004, 40176305005, 40176305006, 40176305007, 40176305008, 40176305009, 40176305010, 40176305011, 40176305012, 40176305013, 40176305014, 40176305015		

SAMPLE DUPLICATE: 1759134

Parameter	Units	40176257002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.0	17.4	3	10	

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QUALIFIERS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

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 LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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 at or above the adjusted LOD.

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-G Pace Analytical Services - Green Bay

WORKORDER QUALIFIERS

WO: 40176305

[1] Revised report per client request to add TCLP analysis to two samples.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

W Non-detect results are reported on a wet weight basis.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40176305001	B-1 (2-3.5)	EPA 3050	301034	EPA 6010	301409
40176305002	B-2 (2-3.5)	EPA 3050	301034	EPA 6010	301409
40176305003	B-4 (2-3.5)	EPA 3050	301034	EPA 6010	301409
40176305004	B-12 (2-3.5)	EPA 3050	301034	EPA 6010	301409
40176305005	B-12 (9.5-11)	EPA 3050	301034	EPA 6010	301409
40176305006	B-16 (2-3.5)	EPA 3050	301034	EPA 6010	301409
40176305007	B-17 (6"-2.5)	EPA 3050	301034	EPA 6010	301409
40176305008	B-18 (6"-2)	EPA 3050	301034	EPA 6010	301409
40176305009	B-18 (9.5-11)	EPA 3050	301034	EPA 6010	301409
40176305010	B-19 (6"-3.5)	EPA 3050	301034	EPA 6010	301409
40176305011	B-20 (6"-3.5)	EPA 3050	301034	EPA 6010	301409
40176305012	B-21 (2-3.5)	EPA 3050	301034	EPA 6010	301409
40176305013	B-21 (14.5-16)	EPA 3050	301034	EPA 6010	301409
40176305014	B-23 (6"-2)	EPA 3050	301034	EPA 6010	301409
40176305015	B-23 (12-13.5)	EPA 3050	301034	EPA 6010	301409
40176305004	B-12 (2-3.5)	EPA 3010	303424	EPA 6010	303571
40176305012	B-21 (2-3.5)	EPA 3010	303424	EPA 6010	303571
40176305001	B-1 (2-3.5)	EPA 7471	301143	EPA 7471	301244
40176305002	B-2 (2-3.5)	EPA 7471	301143	EPA 7471	301244
40176305003	B-4 (2-3.5)	EPA 7471	301143	EPA 7471	301244
40176305004	B-12 (2-3.5)	EPA 7471	301143	EPA 7471	301244
40176305005	B-12 (9.5-11)	EPA 7471	301143	EPA 7471	301244
40176305006	B-16 (2-3.5)	EPA 7471	301143	EPA 7471	301244
40176305007	B-17 (6"-2.5)	EPA 7471	301143	EPA 7471	301244
40176305008	B-18 (6"-2)	EPA 7471	301143	EPA 7471	301244
40176305009	B-18 (9.5-11)	EPA 7471	301143	EPA 7471	301244
40176305010	B-19 (6"-3.5)	EPA 7471	301143	EPA 7471	301244
40176305011	B-20 (6"-3.5)	EPA 7471	301143	EPA 7471	301244
40176305012	B-21 (2-3.5)	EPA 7471	301143	EPA 7471	301244
40176305013	B-21 (14.5-16)	EPA 7471	301143	EPA 7471	301244
40176305014	B-23 (6"-2)	EPA 7471	301143	EPA 7471	301244
40176305015	B-23 (12-13.5)	EPA 7471	301143	EPA 7471	301244
40176305001	B-1 (2-3.5)	EPA 3546	301132	EPA 8270 by SIM	301168
40176305002	B-2 (2-3.5)	EPA 3546	301132	EPA 8270 by SIM	301168
40176305003	B-4 (2-3.5)	EPA 3546	301132	EPA 8270 by SIM	301168
40176305004	B-12 (2-3.5)	EPA 3546	301132	EPA 8270 by SIM	301168
40176305005	B-12 (9.5-11)	EPA 3546	301132	EPA 8270 by SIM	301168
40176305006	B-16 (2-3.5)	EPA 3546	301132	EPA 8270 by SIM	301168
40176305007	B-17 (6"-2.5)	EPA 3546	301132	EPA 8270 by SIM	301168
40176305008	B-18 (6"-2)	EPA 3546	301132	EPA 8270 by SIM	301168
40176305009	B-18 (9.5-11)	EPA 3546	301132	EPA 8270 by SIM	301168
40176305010	B-19 (6"-3.5)	EPA 3546	301132	EPA 8270 by SIM	301168
40176305011	B-20 (6"-3.5)	EPA 3546	301132	EPA 8270 by SIM	301168
40176305012	B-21 (2-3.5)	EPA 3546	301133	EPA 8270 by SIM	301196
40176305013	B-21 (14.5-16)	EPA 3546	301133	EPA 8270 by SIM	301196
40176305014	B-23 (6"-2)	EPA 3546	301133	EPA 8270 by SIM	301196
40176305015	B-23 (12-13.5)	EPA 3546	301133	EPA 8270 by SIM	301196

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40176305001	B-1 (2-3.5)	EPA 5035/5030B	301170	EPA 8260	301172
40176305002	B-2 (2-3.5)	EPA 5035/5030B	301170	EPA 8260	301172
40176305003	B-4 (2-3.5)	EPA 5035/5030B	301170	EPA 8260	301172
40176305004	B-12 (2-3.5)	EPA 5035/5030B	301170	EPA 8260	301172
40176305005	B-12 (9.5-11)	EPA 5035/5030B	301170	EPA 8260	301172
40176305006	B-16 (2-3.5)	EPA 5035/5030B	301170	EPA 8260	301172
40176305007	B-17 (6"-2.5)	EPA 5035/5030B	301170	EPA 8260	301172
40176305008	B-18 (6"-2)	EPA 5035/5030B	301170	EPA 8260	301172
40176305009	B-18 (9.5-11)	EPA 5035/5030B	301170	EPA 8260	301172
40176305010	B-19 (6"-3.5)	EPA 5035/5030B	301170	EPA 8260	301172
40176305011	B-20 (6"-3.5)	EPA 5035/5030B	301170	EPA 8260	301172
40176305012	B-21 (2-3.5)	EPA 5035/5030B	301170	EPA 8260	301172
40176305013	B-21 (14.5-16)	EPA 5035/5030B	301170	EPA 8260	301172
40176305014	B-23 (6"-2)	EPA 5035/5030B	301170	EPA 8260	301172
40176305015	B-23 (12-13.5)	EPA 5035/5030B	301170	EPA 8260	301172
40176305001	B-1 (2-3.5)	ASTM D2974-87	301217		
40176305002	B-2 (2-3.5)	ASTM D2974-87	301217		
40176305003	B-4 (2-3.5)	ASTM D2974-87	301217		
40176305004	B-12 (2-3.5)	ASTM D2974-87	301217		
40176305005	B-12 (9.5-11)	ASTM D2974-87	301217		
40176305006	B-16 (2-3.5)	ASTM D2974-87	301217		
40176305007	B-17 (6"-2.5)	ASTM D2974-87	301217		
40176305008	B-18 (6"-2)	ASTM D2974-87	301217		
40176305009	B-18 (9.5-11)	ASTM D2974-87	301217		
40176305010	B-19 (6"-3.5)	ASTM D2974-87	301217		
40176305011	B-20 (6"-3.5)	ASTM D2974-87	301217		
40176305012	B-21 (2-3.5)	ASTM D2974-87	301217		
40176305013	B-21 (14.5-16)	ASTM D2974-87	301217		
40176305014	B-23 (6"-2)	ASTM D2974-87	301217		
40176305015	B-23 (12-13.5)	ASTM D2974-87	301217		

REPORT OF LABORATORY ANALYSIS

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December 17, 2018

Travis Peterson
Kapur & Associates, Inc.
7711 N. Port Washington Road
Milwaukee, WI 53217

RE: Project: 18.0231.01 CRISTO REY
Pace Project No.: 40180602

Dear Travis Peterson:

Enclosed are the analytical results for sample(s) received by the laboratory on December 06, 2018. 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,



Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Kapur Environmental, Kapur & Associates, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40180602

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

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SAMPLE SUMMARY

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40180602

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40180602001	GP-13 (1-3)	Solid	12/05/18 09:45	12/06/18 13:40
40180602002	GP-14 (1-3)	Solid	12/05/18 10:00	12/06/18 13:40
40180602003	GP-14 (6-8)	Solid	12/05/18 10:15	12/06/18 13:40
40180602004	GP-15 (1-3)	Solid	12/05/18 10:28	12/06/18 13:40
40180602005	GP-16 (1-3)	Solid	12/05/18 10:45	12/06/18 13:40
40180602006	GP-16 (6-8)	Solid	12/05/18 10:55	12/06/18 13:40
40180602007	GP-17 (1-3)	Solid	12/05/18 11:10	12/06/18 13:40
40180602008	TRIP BLANK	Solid	12/05/18 00:00	12/06/18 13:40

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SAMPLE ANALYTE COUNT

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40180602

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40180602001	GP-13 (1-3)	EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	JXS	1	PASI-G
40180602002	GP-14 (1-3)	EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	JXS	1	PASI-G
40180602003	GP-14 (6-8)	EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	JXS	1	PASI-G
40180602004	GP-15 (1-3)	EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	JXS	1	PASI-G
40180602005	GP-16 (1-3)	EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	JXS	1	PASI-G
40180602006	GP-16 (6-8)	EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	JXS	1	PASI-G
40180602007	GP-17 (1-3)	EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	JXS	1	PASI-G
40180602008	TRIP BLANK	EPA 8260	MDS	64	PASI-G

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40180602

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40180602001	GP-13 (1-3)					
EPA 6010	Arsenic	4.0J	mg/kg	6.0	12/17/18 11:46	
EPA 6010	Barium	38.3	mg/kg	6.0	12/17/18 11:46	
EPA 6010	Chromium	13.5	mg/kg	1.2	12/17/18 11:46	
EPA 6010	Lead	6.4	mg/kg	2.4	12/17/18 11:46	
EPA 7471	Mercury	0.014J	mg/kg	0.042	12/17/18 09:31	
ASTM D2974-87	Percent Moisture	18.1	%	0.10	12/11/18 14:18	
40180602002	GP-14 (1-3)					
EPA 6010	Arsenic	4.7J	mg/kg	5.5	12/17/18 11:48	
EPA 6010	Barium	41.3	mg/kg	0.55	12/17/18 11:48	
EPA 6010	Chromium	12.7	mg/kg	1.1	12/17/18 11:48	
EPA 6010	Lead	13.8	mg/kg	2.2	12/17/18 11:48	
EPA 7471	Mercury	0.016J	mg/kg	0.038	12/17/18 09:38	
EPA 8270 by SIM	Acenaphthene	0.025	mg/kg	0.015	12/12/18 16:01	
EPA 8270 by SIM	Acenaphthylene	0.0091J	mg/kg	0.012	12/12/18 16:01	
EPA 8270 by SIM	Anthracene	0.067	mg/kg	0.021	12/12/18 16:01	
EPA 8270 by SIM	Benzo(a)anthracene	0.25	mg/kg	0.012	12/12/18 16:01	
EPA 8270 by SIM	Benzo(a)pyrene	0.30	mg/kg	0.0095	12/12/18 16:01	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.38	mg/kg	0.011	12/12/18 16:01	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.22	mg/kg	0.0076	12/12/18 16:01	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.27	mg/kg	0.0094	12/12/18 16:01	
EPA 8270 by SIM	Chrysene	0.30	mg/kg	0.013	12/12/18 16:01	
EPA 8270 by SIM	Dibenz(a,h)anthracene	0.062	mg/kg	0.0084	12/12/18 16:01	
EPA 8270 by SIM	Fluoranthene	0.65	mg/kg	0.020	12/12/18 16:01	
EPA 8270 by SIM	Fluorene	0.016	mg/kg	0.016	12/12/18 16:01	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.19	mg/kg	0.0083	12/12/18 16:01	
EPA 8270 by SIM	1-Methylnaphthalene	0.058	mg/kg	0.015	12/12/18 16:01	
EPA 8270 by SIM	2-Methylnaphthalene	0.12	mg/kg	0.019	12/12/18 16:01	
EPA 8270 by SIM	Naphthalene	0.060	mg/kg	0.032	12/12/18 16:01	
EPA 8270 by SIM	Phenanthrene	0.24	mg/kg	0.044	12/12/18 16:01	
EPA 8270 by SIM	Pyrene	0.41	mg/kg	0.017	12/12/18 16:01	
ASTM D2974-87	Percent Moisture	11.4	%	0.10	12/11/18 14:18	
40180602003	GP-14 (6-8)					
EPA 6010	Arsenic	6.1	mg/kg	5.6	12/17/18 11:51	
EPA 6010	Barium	64.6	mg/kg	0.56	12/17/18 11:51	
EPA 6010	Chromium	14.7	mg/kg	1.1	12/17/18 11:51	
EPA 6010	Lead	7.3	mg/kg	2.2	12/17/18 11:51	
EPA 7471	Mercury	0.020J	mg/kg	0.037	12/17/18 09:40	
EPA 8270 by SIM	Acenaphthene	0.017	mg/kg	0.015	12/12/18 16:18	
EPA 8270 by SIM	Anthracene	0.037	mg/kg	0.023	12/12/18 16:18	
EPA 8270 by SIM	Benzo(a)anthracene	0.074	mg/kg	0.013	12/12/18 16:18	
EPA 8270 by SIM	Benzo(a)pyrene	0.087	mg/kg	0.010	12/12/18 16:18	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.082	mg/kg	0.011	12/12/18 16:18	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.059	mg/kg	0.0081	12/12/18 16:18	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.073	mg/kg	0.010	12/12/18 16:18	
EPA 8270 by SIM	Chrysene	0.080	mg/kg	0.013	12/12/18 16:18	
EPA 8270 by SIM	Dibenz(a,h)anthracene	0.016	mg/kg	0.0089	12/12/18 16:18	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40180602

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40180602003	GP-14 (6-8)					
EPA 8270 by SIM	Fluoranthene	0.22	mg/kg	0.021	12/12/18 16:18	
EPA 8270 by SIM	Fluorene	0.013J	mg/kg	0.017	12/12/18 16:18	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.048	mg/kg	0.0088	12/12/18 16:18	
EPA 8270 by SIM	Phenanthrene	0.089	mg/kg	0.046	12/12/18 16:18	
EPA 8270 by SIM	Pyrene	0.17	mg/kg	0.018	12/12/18 16:18	
ASTM D2974-87	Percent Moisture	16.4	%	0.10	12/11/18 14:18	
40180602004	GP-15 (1-3)					
EPA 6010	Arsenic	4.2J	mg/kg	5.6	12/17/18 11:53	
EPA 6010	Barium	60.6	mg/kg	0.56	12/17/18 11:53	
EPA 6010	Chromium	20.4	mg/kg	1.1	12/17/18 11:53	
EPA 6010	Lead	9.0	mg/kg	2.2	12/17/18 11:53	
EPA 7471	Mercury	0.017J	mg/kg	0.040	12/17/18 09:43	
ASTM D2974-87	Percent Moisture	16.4	%	0.10	12/11/18 14:19	
40180602005	GP-16 (1-3)					
EPA 6010	Arsenic	4.4J	mg/kg	5.6	12/17/18 11:56	
EPA 6010	Barium	44.0	mg/kg	0.56	12/17/18 11:56	
EPA 6010	Chromium	13.7	mg/kg	1.1	12/17/18 11:56	
EPA 6010	Lead	6.6	mg/kg	2.2	12/17/18 11:56	
EPA 7471	Mercury	0.013J	mg/kg	0.039	12/17/18 09:45	
ASTM D2974-87	Percent Moisture	15.1	%	0.10	12/11/18 14:19	
40180602006	GP-16 (6-8)					
EPA 6010	Arsenic	4.4J	mg/kg	5.9	12/17/18 12:03	
EPA 6010	Barium	63.2	mg/kg	0.59	12/17/18 12:03	
EPA 6010	Chromium	17.7	mg/kg	1.2	12/17/18 12:03	
EPA 6010	Lead	8.0	mg/kg	2.4	12/17/18 12:03	
EPA 7471	Mercury	0.016J	mg/kg	0.041	12/17/18 09:47	
EPA 8260	1,2-Dichloroethane	0.22	mg/kg	0.073	12/07/18 15:01	
ASTM D2974-87	Percent Moisture	17.8	%	0.10	12/11/18 14:19	
40180602007	GP-17 (1-3)					
EPA 6010	Arsenic	3.1J	mg/kg	5.7	12/17/18 12:08	
EPA 6010	Barium	18.9	mg/kg	0.57	12/17/18 12:08	
EPA 6010	Chromium	8.9	mg/kg	1.1	12/17/18 12:08	
EPA 6010	Lead	4.3	mg/kg	2.3	12/17/18 12:08	
EPA 8270 by SIM	Benzo(a)pyrene	0.0042J	mg/kg	0.0095	12/12/18 15:09	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.0045J	mg/kg	0.011	12/12/18 15:09	L1
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.0045J	mg/kg	0.0077	12/12/18 15:09	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.0049J	mg/kg	0.0095	12/12/18 15:09	
EPA 8270 by SIM	Chrysene	0.0067J	mg/kg	0.013	12/12/18 15:09	
EPA 8270 by SIM	Fluoranthene	0.0071J	mg/kg	0.020	12/12/18 15:09	
EPA 8270 by SIM	Pyrene	0.0064J	mg/kg	0.017	12/12/18 15:09	
ASTM D2974-87	Percent Moisture	12.4	%	0.10	12/11/18 14:19	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40180602

Sample: GP-13 (1-3) Lab ID: 40180602001 Collected: 12/05/18 09:45 Received: 12/06/18 13:40 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	4.0J	mg/kg	6.0	1.3	1	12/14/18 08:48	12/17/18 11:46	7440-38-2	
Barium	38.3	mg/kg	0.60	0.18	1	12/14/18 08:48	12/17/18 11:46	7440-39-3	
Cadmium	<0.16	mg/kg	0.60	0.16	1	12/14/18 08:48	12/17/18 11:46	7440-43-9	
Chromium	13.5	mg/kg	1.2	0.34	1	12/14/18 08:48	12/17/18 11:46	7440-47-3	
Lead	6.4	mg/kg	2.4	0.72	1	12/14/18 08:48	12/17/18 11:46	7439-92-1	
Selenium	<1.6	mg/kg	5.3	1.6	1	12/14/18 08:48	12/17/18 11:46	7782-49-2	
Silver	<0.41	mg/kg	1.2	0.41	1	12/14/18 08:48	12/17/18 11:46	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.014J	mg/kg	0.042	0.013	1	12/14/18 12:08	12/17/18 09:31	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<0.0047	mg/kg	0.016	0.0047	1	12/11/18 09:01	12/11/18 15:58	83-32-9	
Acenaphthylene	<0.0040	mg/kg	0.013	0.0040	1	12/11/18 09:01	12/11/18 15:58	208-96-8	
Anthracene	<0.0070	mg/kg	0.023	0.0070	1	12/11/18 09:01	12/11/18 15:58	120-12-7	
Benzo(a)anthracene	<0.0039	mg/kg	0.013	0.0039	1	12/11/18 09:01	12/11/18 15:58	56-55-3	
Benzo(a)pyrene	<0.0031	mg/kg	0.010	0.0031	1	12/11/18 09:01	12/11/18 15:58	50-32-8	
Benzo(b)fluoranthene	<0.0035	mg/kg	0.012	0.0035	1	12/11/18 09:01	12/11/18 15:58	205-99-2	
Benzo(g,h,i)perylene	<0.0025	mg/kg	0.0083	0.0025	1	12/11/18 09:01	12/11/18 15:58	191-24-2	
Benzo(k)fluoranthene	<0.0031	mg/kg	0.010	0.0031	1	12/11/18 09:01	12/11/18 15:58	207-08-9	
Chrysene	<0.0041	mg/kg	0.014	0.0041	1	12/11/18 09:01	12/11/18 15:58	218-01-9	
Dibenz(a,h)anthracene	<0.0027	mg/kg	0.0091	0.0027	1	12/11/18 09:01	12/11/18 15:58	53-70-3	
Fluoranthene	<0.0064	mg/kg	0.021	0.0064	1	12/11/18 09:01	12/11/18 15:58	206-44-0	
Fluorene	<0.0051	mg/kg	0.017	0.0051	1	12/11/18 09:01	12/11/18 15:58	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0027	mg/kg	0.0090	0.0027	1	12/11/18 09:01	12/11/18 15:58	193-39-5	
1-Methylnaphthalene	<0.0049	mg/kg	0.016	0.0049	1	12/11/18 09:01	12/11/18 15:58	90-12-0	
2-Methylnaphthalene	<0.0061	mg/kg	0.020	0.0061	1	12/11/18 09:01	12/11/18 15:58	91-57-6	
Naphthalene	<0.010	mg/kg	0.034	0.010	1	12/11/18 09:01	12/11/18 15:58	91-20-3	
Phenanthrene	<0.014	mg/kg	0.047	0.014	1	12/11/18 09:01	12/11/18 15:58	85-01-8	
Pyrene	<0.0055	mg/kg	0.018	0.0055	1	12/11/18 09:01	12/11/18 15:58	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	65	%	10-115		1	12/11/18 09:01	12/11/18 15:58	321-60-8	
Terphenyl-d14 (S)	65	%	10-121		1	12/11/18 09:01	12/11/18 15:58	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	630-20-6	W
1,1,1-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	71-55-6	W
1,1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	79-34-5	W
1,1,2-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	79-00-5	W
1,1-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	75-34-3	W
1,1-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	75-35-4	W
1,1-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	563-58-6	W
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	87-61-6	W
1,2,3-Trichloropropane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	96-18-4	W
1,2,4-Trichlorobenzene	<0.048	mg/kg	0.25	0.048	1	12/07/18 08:15	12/07/18 16:09	120-82-1	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40180602

Sample: GP-13 (1-3) **Lab ID: 40180602001** Collected: 12/05/18 09:45 Received: 12/06/18 13:40 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	95-63-6	W
1,2-Dibromo-3-chloropropane	<0.091	mg/kg	0.25	0.091	1	12/07/18 08:15	12/07/18 16:09	96-12-8	W
1,2-Dibromoethane (EDB)	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	106-93-4	W
1,2-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	95-50-1	W
1,2-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	107-06-2	W
1,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	78-87-5	W
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	108-67-8	W
1,3-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	541-73-1	W
1,3-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	142-28-9	W
1,4-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	106-46-7	W
2,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	594-20-7	W
2-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	95-49-8	W
4-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	106-43-4	W
Benzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	71-43-2	W
Bromobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	108-86-1	W
Bromochloromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	74-97-5	W
Bromodichloromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	75-27-4	W
Bromoform	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	75-25-2	W
Bromomethane	<0.070	mg/kg	0.25	0.070	1	12/07/18 08:15	12/07/18 16:09	74-83-9	W
Carbon tetrachloride	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	56-23-5	W
Chlorobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	108-90-7	W
Chloroethane	<0.067	mg/kg	0.25	0.067	1	12/07/18 08:15	12/07/18 16:09	75-00-3	W
Chloroform	<0.046	mg/kg	0.25	0.046	1	12/07/18 08:15	12/07/18 16:09	67-66-3	W
Chloromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	74-87-3	W
Dibromochloromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	124-48-1	W
Dibromomethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	74-95-3	W
Dichlorodifluoromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	75-71-8	W
Diisopropyl ether	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	108-20-3	W
Ethylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	100-41-4	W
Hexachloro-1,3-butadiene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	87-68-3	W
Isopropylbenzene (Cumene)	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	98-82-8	W
Methyl-tert-butyl ether	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	1634-04-4	W
Methylene Chloride	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	75-09-2	W
Naphthalene	<0.040	mg/kg	0.25	0.040	1	12/07/18 08:15	12/07/18 16:09	91-20-3	W
Styrene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	100-42-5	W
Tetrachloroethene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	127-18-4	W
Toluene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	108-88-3	W
Trichloroethene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	79-01-6	W
Trichlorofluoromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	75-69-4	W
Vinyl chloride	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	75-01-4	L1,W
cis-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	156-59-2	W
cis-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	10061-01-5	W
m&p-Xylene	<0.050	mg/kg	0.12	0.050	1	12/07/18 08:15	12/07/18 16:09	179601-23-1	W
n-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	104-51-8	W
n-Propylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	103-65-1	W

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40180602

Sample: GP-13 (1-3) **Lab ID: 40180602001** Collected: 12/05/18 09:45 Received: 12/06/18 13:40 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
o-Xylene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	95-47-6	W
p-Isopropyltoluene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	99-87-6	W
sec-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	135-98-8	W
tert-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	98-06-6	W
trans-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	156-60-5	W
trans-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 16:09	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	101	%	57-148		1	12/07/18 08:15	12/07/18 16:09	1868-53-7	
Toluene-d8 (S)	94	%	58-142		1	12/07/18 08:15	12/07/18 16:09	2037-26-5	
4-Bromofluorobenzene (S)	85	%	48-130		1	12/07/18 08:15	12/07/18 16:09	460-00-4	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	18.1	%	0.10	0.10	1		12/11/18 14:18		

Sample: GP-14 (1-3) **Lab ID: 40180602002** Collected: 12/05/18 10:00 Received: 12/06/18 13:40 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	4.7J	mg/kg	5.5	1.2	1	12/14/18 08:48	12/17/18 11:48	7440-38-2	
Barium	41.3	mg/kg	0.55	0.17	1	12/14/18 08:48	12/17/18 11:48	7440-39-3	
Cadmium	<0.15	mg/kg	0.55	0.15	1	12/14/18 08:48	12/17/18 11:48	7440-43-9	
Chromium	12.7	mg/kg	1.1	0.31	1	12/14/18 08:48	12/17/18 11:48	7440-47-3	
Lead	13.8	mg/kg	2.2	0.66	1	12/14/18 08:48	12/17/18 11:48	7439-92-1	
Selenium	<1.5	mg/kg	4.8	1.5	1	12/14/18 08:48	12/17/18 11:48	7782-49-2	
Silver	<0.38	mg/kg	1.1	0.38	1	12/14/18 08:48	12/17/18 11:48	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.016J	mg/kg	0.038	0.011	1	12/14/18 12:08	12/17/18 09:38	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	0.025	mg/kg	0.015	0.0044	1	12/11/18 09:01	12/12/18 16:01	83-32-9	
Acenaphthylene	0.0091J	mg/kg	0.012	0.0037	1	12/11/18 09:01	12/12/18 16:01	208-96-8	
Anthracene	0.067	mg/kg	0.021	0.0065	1	12/11/18 09:01	12/12/18 16:01	120-12-7	
Benzo(a)anthracene	0.25	mg/kg	0.012	0.0036	1	12/11/18 09:01	12/12/18 16:01	56-55-3	
Benzo(a)pyrene	0.30	mg/kg	0.0095	0.0028	1	12/11/18 09:01	12/12/18 16:01	50-32-8	
Benzo(b)fluoranthene	0.38	mg/kg	0.011	0.0032	1	12/11/18 09:01	12/12/18 16:01	205-99-2	
Benzo(g,h,i)perylene	0.22	mg/kg	0.0076	0.0023	1	12/11/18 09:01	12/12/18 16:01	191-24-2	
Benzo(k)fluoranthene	0.27	mg/kg	0.0094	0.0028	1	12/11/18 09:01	12/12/18 16:01	207-08-9	
Chrysene	0.30	mg/kg	0.013	0.0038	1	12/11/18 09:01	12/12/18 16:01	218-01-9	
Dibenz(a,h)anthracene	0.062	mg/kg	0.0084	0.0025	1	12/11/18 09:01	12/12/18 16:01	53-70-3	
Fluoranthene	0.65	mg/kg	0.020	0.0059	1	12/11/18 09:01	12/12/18 16:01	206-44-0	

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40180602

Sample: GP-14 (1-3) Lab ID: 40180602002 Collected: 12/05/18 10:00 Received: 12/06/18 13:40 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Fluorene	0.016	mg/kg	0.016	0.0047	1	12/11/18 09:01	12/12/18 16:01	86-73-7	
Indeno(1,2,3-cd)pyrene	0.19	mg/kg	0.0083	0.0025	1	12/11/18 09:01	12/12/18 16:01	193-39-5	
1-Methylnaphthalene	0.058	mg/kg	0.015	0.0045	1	12/11/18 09:01	12/12/18 16:01	90-12-0	
2-Methylnaphthalene	0.12	mg/kg	0.019	0.0057	1	12/11/18 09:01	12/12/18 16:01	91-57-6	
Naphthalene	0.060	mg/kg	0.032	0.0095	1	12/11/18 09:01	12/12/18 16:01	91-20-3	
Phenanthrene	0.24	mg/kg	0.044	0.013	1	12/11/18 09:01	12/12/18 16:01	85-01-8	
Pyrene	0.41	mg/kg	0.017	0.0051	1	12/11/18 09:01	12/12/18 16:01	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	83	%	10-115		1	12/11/18 09:01	12/12/18 16:01	321-60-8	
Terphenyl-d14 (S)	47	%	10-121		1	12/11/18 09:01	12/12/18 16:01	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	630-20-6	W
1,1,1-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	71-55-6	W
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	79-34-5	W
1,1,2-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	79-00-5	W
1,1-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	75-34-3	W
1,1-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	75-35-4	W
1,1-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	563-58-6	W
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	87-61-6	W
1,2,3-Trichloropropane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	96-18-4	W
1,2,4-Trichlorobenzene	<0.048	mg/kg	0.25	0.048	1	12/07/18 08:15	12/07/18 15:46	120-82-1	W
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	95-63-6	W
1,2-Dibromo-3-chloropropane	<0.091	mg/kg	0.25	0.091	1	12/07/18 08:15	12/07/18 15:46	96-12-8	W
1,2-Dibromoethane (EDB)	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	106-93-4	W
1,2-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	95-50-1	W
1,2-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	107-06-2	W
1,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	78-87-5	W
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	108-67-8	W
1,3-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	541-73-1	W
1,3-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	142-28-9	W
1,4-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	106-46-7	W
2,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	594-20-7	W
2-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	95-49-8	W
4-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	106-43-4	W
Benzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	71-43-2	W
Bromobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	108-86-1	W
Bromochloromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	74-97-5	W
Bromodichloromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	75-27-4	W
Bromoform	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	75-25-2	W
Bromomethane	<0.070	mg/kg	0.25	0.070	1	12/07/18 08:15	12/07/18 15:46	74-83-9	W
Carbon tetrachloride	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	56-23-5	W
Chlorobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	108-90-7	W
Chloroethane	<0.067	mg/kg	0.25	0.067	1	12/07/18 08:15	12/07/18 15:46	75-00-3	W
Chloroform	<0.046	mg/kg	0.25	0.046	1	12/07/18 08:15	12/07/18 15:46	67-66-3	W

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40180602

Sample: GP-14 (1-3) **Lab ID: 40180602002** Collected: 12/05/18 10:00 Received: 12/06/18 13:40 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Chloromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	74-87-3	W
Dibromochloromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	124-48-1	W
Dibromomethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	74-95-3	W
Dichlorodifluoromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	75-71-8	W
Diisopropyl ether	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	108-20-3	W
Ethylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	100-41-4	W
Hexachloro-1,3-butadiene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	87-68-3	W
Isopropylbenzene (Cumene)	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	98-82-8	W
Methyl-tert-butyl ether	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	1634-04-4	W
Methylene Chloride	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	75-09-2	W
Naphthalene	<0.040	mg/kg	0.25	0.040	1	12/07/18 08:15	12/07/18 15:46	91-20-3	W
Styrene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	100-42-5	W
Tetrachloroethene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	127-18-4	W
Toluene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	108-88-3	W
Trichloroethene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	79-01-6	W
Trichlorofluoromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	75-69-4	W
Vinyl chloride	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	75-01-4	L1,W
cis-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	156-59-2	W
cis-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	10061-01-5	W
m&p-Xylene	<0.050	mg/kg	0.12	0.050	1	12/07/18 08:15	12/07/18 15:46	179601-23-1	W
n-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	104-51-8	W
n-Propylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	103-65-1	W
o-Xylene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	95-47-6	W
p-Isopropyltoluene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	99-87-6	W
sec-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	135-98-8	W
tert-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	98-06-6	W
trans-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	156-60-5	W
trans-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:46	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	113	%	57-148		1	12/07/18 08:15	12/07/18 15:46	1868-53-7	
Toluene-d8 (S)	104	%	58-142		1	12/07/18 08:15	12/07/18 15:46	2037-26-5	
4-Bromofluorobenzene (S)	95	%	48-130		1	12/07/18 08:15	12/07/18 15:46	460-00-4	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	11.4	%	0.10	0.10	1		12/11/18 14:18		
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Sample: GP-14 (6-8) **Lab ID: 40180602003** Collected: 12/05/18 10:15 Received: 12/06/18 13:40 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	6.1	mg/kg	5.6	1.2	1	12/14/18 08:48	12/17/18 11:51	7440-38-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40180602

Sample: GP-14 (6-8) **Lab ID: 40180602003** Collected: 12/05/18 10:15 Received: 12/06/18 13:40 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Barium	64.6	mg/kg	0.56	0.17	1	12/14/18 08:48	12/17/18 11:51	7440-39-3	
Cadmium	<0.15	mg/kg	0.56	0.15	1	12/14/18 08:48	12/17/18 11:51	7440-43-9	
Chromium	14.7	mg/kg	1.1	0.31	1	12/14/18 08:48	12/17/18 11:51	7440-47-3	
Lead	7.3	mg/kg	2.2	0.67	1	12/14/18 08:48	12/17/18 11:51	7439-92-1	
Selenium	<1.5	mg/kg	4.9	1.5	1	12/14/18 08:48	12/17/18 11:51	7782-49-2	
Silver	<0.39	mg/kg	1.1	0.39	1	12/14/18 08:48	12/17/18 11:51	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.020J	mg/kg	0.037	0.011	1	12/14/18 12:08	12/17/18 09:40	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	0.017	mg/kg	0.015	0.0046	1	12/11/18 09:01	12/12/18 16:18	83-32-9	
Acenaphthylene	<0.0039	mg/kg	0.013	0.0039	1	12/11/18 09:01	12/12/18 16:18	208-96-8	
Anthracene	0.037	mg/kg	0.023	0.0068	1	12/11/18 09:01	12/12/18 16:18	120-12-7	
Benzo(a)anthracene	0.074	mg/kg	0.013	0.0038	1	12/11/18 09:01	12/12/18 16:18	56-55-3	
Benzo(a)pyrene	0.087	mg/kg	0.010	0.0030	1	12/11/18 09:01	12/12/18 16:18	50-32-8	
Benzo(b)fluoranthene	0.082	mg/kg	0.011	0.0034	1	12/11/18 09:01	12/12/18 16:18	205-99-2	
Benzo(g,h,i)perylene	0.059	mg/kg	0.0081	0.0024	1	12/11/18 09:01	12/12/18 16:18	191-24-2	
Benzo(k)fluoranthene	0.073	mg/kg	0.010	0.0030	1	12/11/18 09:01	12/12/18 16:18	207-08-9	
Chrysene	0.080	mg/kg	0.013	0.0040	1	12/11/18 09:01	12/12/18 16:18	218-01-9	
Dibenz(a,h)anthracene	0.016	mg/kg	0.0089	0.0027	1	12/11/18 09:01	12/12/18 16:18	53-70-3	
Fluoranthene	0.22	mg/kg	0.021	0.0062	1	12/11/18 09:01	12/12/18 16:18	206-44-0	
Fluorene	0.013J	mg/kg	0.017	0.0050	1	12/11/18 09:01	12/12/18 16:18	86-73-7	
Indeno(1,2,3-cd)pyrene	0.048	mg/kg	0.0088	0.0026	1	12/11/18 09:01	12/12/18 16:18	193-39-5	
1-Methylnaphthalene	<0.0048	mg/kg	0.016	0.0048	1	12/11/18 09:01	12/12/18 16:18	90-12-0	
2-Methylnaphthalene	<0.0060	mg/kg	0.020	0.0060	1	12/11/18 09:01	12/12/18 16:18	91-57-6	
Naphthalene	<0.010	mg/kg	0.034	0.010	1	12/11/18 09:01	12/12/18 16:18	91-20-3	
Phenanthrene	0.089	mg/kg	0.046	0.014	1	12/11/18 09:01	12/12/18 16:18	85-01-8	
Pyrene	0.17	mg/kg	0.018	0.0054	1	12/11/18 09:01	12/12/18 16:18	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	64	%	10-115		1	12/11/18 09:01	12/12/18 16:18	321-60-8	
Terphenyl-d14 (S)	63	%	10-121		1	12/11/18 09:01	12/12/18 16:18	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	630-20-6	W
1,1,1-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	71-55-6	W
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	79-34-5	W
1,1,2-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	79-00-5	W
1,1-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	75-34-3	W
1,1-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	75-35-4	W
1,1-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	563-58-6	W
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	87-61-6	W
1,2,3-Trichloropropane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	96-18-4	W
1,2,4-Trichlorobenzene	<0.048	mg/kg	0.25	0.048	1	12/07/18 08:15	12/07/18 13:31	120-82-1	W
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	95-63-6	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40180602

Sample: GP-14 (6-8) **Lab ID: 40180602003** Collected: 12/05/18 10:15 Received: 12/06/18 13:40 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,2-Dibromo-3-chloropropane	<0.091	mg/kg	0.25	0.091	1	12/07/18 08:15	12/07/18 13:31	96-12-8	W
1,2-Dibromoethane (EDB)	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	106-93-4	W
1,2-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	95-50-1	W
1,2-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	107-06-2	W
1,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	78-87-5	W
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	108-67-8	W
1,3-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	541-73-1	W
1,3-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	142-28-9	W
1,4-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	106-46-7	W
2,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	594-20-7	W
2-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	95-49-8	W
4-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	106-43-4	W
Benzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	71-43-2	W
Bromobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	108-86-1	W
Bromochloromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	74-97-5	W
Bromodichloromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	75-27-4	W
Bromoform	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	75-25-2	W
Bromomethane	<0.070	mg/kg	0.25	0.070	1	12/07/18 08:15	12/07/18 13:31	74-83-9	W
Carbon tetrachloride	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	56-23-5	W
Chlorobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	108-90-7	W
Chloroethane	<0.067	mg/kg	0.25	0.067	1	12/07/18 08:15	12/07/18 13:31	75-00-3	W
Chloroform	<0.046	mg/kg	0.25	0.046	1	12/07/18 08:15	12/07/18 13:31	67-66-3	W
Chloromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	74-87-3	W
Dibromochloromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	124-48-1	W
Dibromomethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	74-95-3	W
Dichlorodifluoromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	75-71-8	W
Diisopropyl ether	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	108-20-3	W
Ethylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	100-41-4	W
Hexachloro-1,3-butadiene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	87-68-3	W
Isopropylbenzene (Cumene)	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	98-82-8	W
Methyl-tert-butyl ether	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	1634-04-4	W
Methylene Chloride	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	75-09-2	W
Naphthalene	<0.040	mg/kg	0.25	0.040	1	12/07/18 08:15	12/07/18 13:31	91-20-3	W
Styrene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	100-42-5	W
Tetrachloroethene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	127-18-4	W
Toluene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	108-88-3	W
Trichloroethene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	79-01-6	W
Trichlorofluoromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	75-69-4	W
Vinyl chloride	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	75-01-4	L1,W
cis-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	156-59-2	W
cis-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	10061-01-5	W
m&p-Xylene	<0.050	mg/kg	0.12	0.050	1	12/07/18 08:15	12/07/18 13:31	179601-23-1	W
n-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	104-51-8	W
n-Propylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	103-65-1	W
o-Xylene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	95-47-6	W

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40180602

Sample: GP-14 (6-8) **Lab ID: 40180602003** Collected: 12/05/18 10:15 Received: 12/06/18 13:40 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
p-Isopropyltoluene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	99-87-6	W
sec-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	135-98-8	W
tert-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	98-06-6	W
trans-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	156-60-5	W
trans-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 13:31	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	93	%	57-148		1	12/07/18 08:15	12/07/18 13:31	1868-53-7	
Toluene-d8 (S)	88	%	58-142		1	12/07/18 08:15	12/07/18 13:31	2037-26-5	
4-Bromofluorobenzene (S)	76	%	48-130		1	12/07/18 08:15	12/07/18 13:31	460-00-4	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	16.4	%	0.10	0.10	1		12/11/18 14:18		

Sample: GP-15 (1-3) **Lab ID: 40180602004** Collected: 12/05/18 10:28 Received: 12/06/18 13:40 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	4.2J	mg/kg	5.6	1.2	1	12/14/18 08:48	12/17/18 11:53	7440-38-2	
Barium	60.6	mg/kg	0.56	0.17	1	12/14/18 08:48	12/17/18 11:53	7440-39-3	
Cadmium	<0.15	mg/kg	0.56	0.15	1	12/14/18 08:48	12/17/18 11:53	7440-43-9	
Chromium	20.4	mg/kg	1.1	0.31	1	12/14/18 08:48	12/17/18 11:53	7440-47-3	
Lead	9.0	mg/kg	2.2	0.67	1	12/14/18 08:48	12/17/18 11:53	7439-92-1	
Selenium	<1.5	mg/kg	4.9	1.5	1	12/14/18 08:48	12/17/18 11:53	7782-49-2	
Silver	<0.38	mg/kg	1.1	0.38	1	12/14/18 08:48	12/17/18 11:53	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.017J	mg/kg	0.040	0.012	1	12/14/18 12:08	12/17/18 09:43	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<0.0046	mg/kg	0.015	0.0046	1	12/11/18 09:01	12/11/18 16:16	83-32-9	
Acenaphthylene	<0.0039	mg/kg	0.013	0.0039	1	12/11/18 09:01	12/11/18 16:16	208-96-8	
Anthracene	<0.0068	mg/kg	0.023	0.0068	1	12/11/18 09:01	12/11/18 16:16	120-12-7	
Benzo(a)anthracene	<0.0038	mg/kg	0.013	0.0038	1	12/11/18 09:01	12/11/18 16:16	56-55-3	
Benzo(a)pyrene	<0.0030	mg/kg	0.010	0.0030	1	12/11/18 09:01	12/11/18 16:16	50-32-8	
Benzo(b)fluoranthene	<0.0034	mg/kg	0.011	0.0034	1	12/11/18 09:01	12/11/18 16:16	205-99-2	
Benzo(g,h,i)perylene	<0.0024	mg/kg	0.0081	0.0024	1	12/11/18 09:01	12/11/18 16:16	191-24-2	
Benzo(k)fluoranthene	<0.0030	mg/kg	0.010	0.0030	1	12/11/18 09:01	12/11/18 16:16	207-08-9	
Chrysene	<0.0040	mg/kg	0.013	0.0040	1	12/11/18 09:01	12/11/18 16:16	218-01-9	
Dibenz(a,h)anthracene	<0.0027	mg/kg	0.0089	0.0027	1	12/11/18 09:01	12/11/18 16:16	53-70-3	
Fluoranthene	<0.0062	mg/kg	0.021	0.0062	1	12/11/18 09:01	12/11/18 16:16	206-44-0	
Fluorene	<0.0049	mg/kg	0.016	0.0049	1	12/11/18 09:01	12/11/18 16:16	86-73-7	

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40180602

Sample: GP-15 (1-3) **Lab ID: 40180602004** Collected: 12/05/18 10:28 Received: 12/06/18 13:40 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Indeno(1,2,3-cd)pyrene	<0.0026	mg/kg	0.0088	0.0026	1	12/11/18 09:01	12/11/18 16:16	193-39-5	
1-Methylnaphthalene	<0.0048	mg/kg	0.016	0.0048	1	12/11/18 09:01	12/11/18 16:16	90-12-0	
2-Methylnaphthalene	<0.0060	mg/kg	0.020	0.0060	1	12/11/18 09:01	12/11/18 16:16	91-57-6	
Naphthalene	<0.010	mg/kg	0.034	0.010	1	12/11/18 09:01	12/11/18 16:16	91-20-3	
Phenanthrene	<0.014	mg/kg	0.046	0.014	1	12/11/18 09:01	12/11/18 16:16	85-01-8	
Pyrene	<0.0054	mg/kg	0.018	0.0054	1	12/11/18 09:01	12/11/18 16:16	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	69	%	10-115		1	12/11/18 09:01	12/11/18 16:16	321-60-8	
Terphenyl-d14 (S)	65	%	10-121		1	12/11/18 09:01	12/11/18 16:16	1718-51-0	
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	630-20-6	W
1,1,1-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	71-55-6	W
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	79-34-5	W
1,1,2-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	79-00-5	W
1,1-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	75-34-3	W
1,1-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	75-35-4	W
1,1-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	563-58-6	W
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	87-61-6	W
1,2,3-Trichloropropane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	96-18-4	W
1,2,4-Trichlorobenzene	<0.048	mg/kg	0.25	0.048	1	12/07/18 08:15	12/07/18 14:16	120-82-1	W
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	95-63-6	W
1,2-Dibromo-3-chloropropane	<0.091	mg/kg	0.25	0.091	1	12/07/18 08:15	12/07/18 14:16	96-12-8	W
1,2-Dibromoethane (EDB)	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	106-93-4	W
1,2-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	95-50-1	W
1,2-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	107-06-2	W
1,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	78-87-5	W
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	108-67-8	W
1,3-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	541-73-1	W
1,3-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	142-28-9	W
1,4-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	106-46-7	W
2,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	594-20-7	W
2-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	95-49-8	W
4-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	106-43-4	W
Benzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	71-43-2	W
Bromobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	108-86-1	W
Bromochloromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	74-97-5	W
Bromodichloromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	75-27-4	W
Bromoform	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	75-25-2	W
Bromomethane	<0.070	mg/kg	0.25	0.070	1	12/07/18 08:15	12/07/18 14:16	74-83-9	W
Carbon tetrachloride	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	56-23-5	W
Chlorobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	108-90-7	W
Chloroethane	<0.067	mg/kg	0.25	0.067	1	12/07/18 08:15	12/07/18 14:16	75-00-3	W
Chloroform	<0.046	mg/kg	0.25	0.046	1	12/07/18 08:15	12/07/18 14:16	67-66-3	W
Chloromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	74-87-3	W

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40180602

Sample: GP-15 (1-3) **Lab ID: 40180602004** Collected: 12/05/18 10:28 Received: 12/06/18 13:40 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Dibromochloromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	124-48-1	W
Dibromomethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	74-95-3	W
Dichlorodifluoromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	75-71-8	W
Diisopropyl ether	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	108-20-3	W
Ethylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	100-41-4	W
Hexachloro-1,3-butadiene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	87-68-3	W
Isopropylbenzene (Cumene)	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	98-82-8	W
Methyl-tert-butyl ether	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	1634-04-4	W
Methylene Chloride	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	75-09-2	W
Naphthalene	<0.040	mg/kg	0.25	0.040	1	12/07/18 08:15	12/07/18 14:16	91-20-3	W
Styrene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	100-42-5	W
Tetrachloroethene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	127-18-4	W
Toluene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	108-88-3	W
Trichloroethene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	79-01-6	W
Trichlorofluoromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	75-69-4	W
Vinyl chloride	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	75-01-4	L1,W
cis-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	156-59-2	W
cis-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	10061-01-5	W
m&p-Xylene	<0.050	mg/kg	0.12	0.050	1	12/07/18 08:15	12/07/18 14:16	179601-23-1	W
n-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	104-51-8	W
n-Propylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	103-65-1	W
o-Xylene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	95-47-6	W
p-Isopropyltoluene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	99-87-6	W
sec-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	135-98-8	W
tert-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	98-06-6	W
trans-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	156-60-5	W
trans-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:16	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	105	%	57-148		1	12/07/18 08:15	12/07/18 14:16	1868-53-7	
Toluene-d8 (S)	100	%	58-142		1	12/07/18 08:15	12/07/18 14:16	2037-26-5	
4-Bromofluorobenzene (S)	92	%	48-130		1	12/07/18 08:15	12/07/18 14:16	460-00-4	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture **16.4** % 0.10 0.10 1 12/11/18 14:19

Sample: GP-16 (1-3) **Lab ID: 40180602005** Collected: 12/05/18 10:45 Received: 12/06/18 13:40 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	4.4J	mg/kg	5.6	1.2	1	12/14/18 08:48	12/17/18 11:56	7440-38-2	
Barium	44.0	mg/kg	0.56	0.17	1	12/14/18 08:48	12/17/18 11:56	7440-39-3	

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40180602

Sample: GP-16 (1-3) **Lab ID: 40180602005** Collected: 12/05/18 10:45 Received: 12/06/18 13:40 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Cadmium	<0.15	mg/kg	0.56	0.15	1	12/14/18 08:48	12/17/18 11:56	7440-43-9	
Chromium	13.7	mg/kg	1.1	0.31	1	12/14/18 08:48	12/17/18 11:56	7440-47-3	
Lead	6.6	mg/kg	2.2	0.67	1	12/14/18 08:48	12/17/18 11:56	7439-92-1	
Selenium	<1.5	mg/kg	4.9	1.5	1	12/14/18 08:48	12/17/18 11:56	7782-49-2	
Silver	<0.39	mg/kg	1.1	0.39	1	12/14/18 08:48	12/17/18 11:56	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.013J	mg/kg	0.039	0.012	1	12/14/18 12:08	12/17/18 09:45	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<0.0046	mg/kg	0.015	0.0046	1	12/11/18 09:01	12/11/18 15:07	83-32-9	
Acenaphthylene	<0.0039	mg/kg	0.013	0.0039	1	12/11/18 09:01	12/11/18 15:07	208-96-8	
Anthracene	<0.0067	mg/kg	0.022	0.0067	1	12/11/18 09:01	12/11/18 15:07	120-12-7	
Benzo(a)anthracene	<0.0037	mg/kg	0.012	0.0037	1	12/11/18 09:01	12/11/18 15:07	56-55-3	
Benzo(a)pyrene	<0.0030	mg/kg	0.0099	0.0030	1	12/11/18 09:01	12/11/18 15:07	50-32-8	
Benzo(b)fluoranthene	<0.0033	mg/kg	0.011	0.0033	1	12/11/18 09:01	12/11/18 15:07	205-99-2	
Benzo(g,h,i)perylene	<0.0024	mg/kg	0.0080	0.0024	1	12/11/18 09:01	12/11/18 15:07	191-24-2	
Benzo(k)fluoranthene	<0.0030	mg/kg	0.0098	0.0030	1	12/11/18 09:01	12/11/18 15:07	207-08-9	
Chrysene	<0.0040	mg/kg	0.013	0.0040	1	12/11/18 09:01	12/11/18 15:07	218-01-9	
Dibenz(a,h)anthracene	<0.0026	mg/kg	0.0088	0.0026	1	12/11/18 09:01	12/11/18 15:07	53-70-3	
Fluoranthene	<0.0061	mg/kg	0.020	0.0061	1	12/11/18 09:01	12/11/18 15:07	206-44-0	
Fluorene	<0.0049	mg/kg	0.016	0.0049	1	12/11/18 09:01	12/11/18 15:07	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0026	mg/kg	0.0086	0.0026	1	12/11/18 09:01	12/11/18 15:07	193-39-5	
1-Methylnaphthalene	<0.0047	mg/kg	0.016	0.0047	1	12/11/18 09:01	12/11/18 15:07	90-12-0	
2-Methylnaphthalene	<0.0059	mg/kg	0.020	0.0059	1	12/11/18 09:01	12/11/18 15:07	91-57-6	
Naphthalene	<0.0099	mg/kg	0.033	0.0099	1	12/11/18 09:01	12/11/18 15:07	91-20-3	
Phenanthrene	<0.014	mg/kg	0.046	0.014	1	12/11/18 09:01	12/11/18 15:07	85-01-8	
Pyrene	<0.0053	mg/kg	0.018	0.0053	1	12/11/18 09:01	12/11/18 15:07	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	58	%	10-115		1	12/11/18 09:01	12/11/18 15:07	321-60-8	
Terphenyl-d14 (S)	58	%	10-121		1	12/11/18 09:01	12/11/18 15:07	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	630-20-6	W
1,1,1-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	71-55-6	W
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	79-34-5	W
1,1,2-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	79-00-5	W
1,1-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	75-34-3	W
1,1-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	75-35-4	W
1,1-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	563-58-6	W
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	87-61-6	W
1,2,3-Trichloropropane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	96-18-4	W
1,2,4-Trichlorobenzene	<0.048	mg/kg	0.25	0.048	1	12/07/18 08:15	12/07/18 14:38	120-82-1	W
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	95-63-6	W
1,2-Dibromo-3-chloropropane	<0.091	mg/kg	0.25	0.091	1	12/07/18 08:15	12/07/18 14:38	96-12-8	W

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40180602

Sample: GP-16 (1-3) **Lab ID: 40180602005** Collected: 12/05/18 10:45 Received: 12/06/18 13:40 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2-Dibromoethane (EDB)	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	106-93-4	W
1,2-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	95-50-1	W
1,2-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	107-06-2	W
1,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	78-87-5	W
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	108-67-8	W
1,3-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	541-73-1	W
1,3-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	142-28-9	W
1,4-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	106-46-7	W
2,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	594-20-7	W
2-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	95-49-8	W
4-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	106-43-4	W
Benzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	71-43-2	W
Bromobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	108-86-1	W
Bromochloromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	74-97-5	W
Bromodichloromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	75-27-4	W
Bromoform	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	75-25-2	W
Bromomethane	<0.070	mg/kg	0.25	0.070	1	12/07/18 08:15	12/07/18 14:38	74-83-9	W
Carbon tetrachloride	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	56-23-5	W
Chlorobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	108-90-7	W
Chloroethane	<0.067	mg/kg	0.25	0.067	1	12/07/18 08:15	12/07/18 14:38	75-00-3	W
Chloroform	<0.046	mg/kg	0.25	0.046	1	12/07/18 08:15	12/07/18 14:38	67-66-3	W
Chloromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	74-87-3	W
Dibromochloromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	124-48-1	W
Dibromomethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	74-95-3	W
Dichlorodifluoromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	75-71-8	W
Diisopropyl ether	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	108-20-3	W
Ethylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	100-41-4	W
Hexachloro-1,3-butadiene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	87-68-3	W
Isopropylbenzene (Cumene)	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	98-82-8	W
Methyl-tert-butyl ether	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	1634-04-4	W
Methylene Chloride	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	75-09-2	W
Naphthalene	<0.040	mg/kg	0.25	0.040	1	12/07/18 08:15	12/07/18 14:38	91-20-3	W
Styrene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	100-42-5	W
Tetrachloroethene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	127-18-4	W
Toluene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	108-88-3	W
Trichloroethene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	79-01-6	W
Trichlorofluoromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	75-69-4	W
Vinyl chloride	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	75-01-4	L1,W
cis-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	156-59-2	W
cis-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	10061-01-5	W
m&p-Xylene	<0.050	mg/kg	0.12	0.050	1	12/07/18 08:15	12/07/18 14:38	179601-23-1	W
n-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	104-51-8	W
n-Propylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	103-65-1	W
o-Xylene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	95-47-6	W
p-Isopropyltoluene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	99-87-6	W

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40180602

Sample: GP-16 (1-3) **Lab ID: 40180602005** Collected: 12/05/18 10:45 Received: 12/06/18 13:40 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
sec-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	135-98-8	W
tert-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	98-06-6	W
trans-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	156-60-5	W
trans-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 14:38	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	107	%	57-148		1	12/07/18 08:15	12/07/18 14:38	1868-53-7	
Toluene-d8 (S)	103	%	58-142		1	12/07/18 08:15	12/07/18 14:38	2037-26-5	
4-Bromofluorobenzene (S)	93	%	48-130		1	12/07/18 08:15	12/07/18 14:38	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	15.1	%	0.10	0.10	1		12/11/18 14:19		

Sample: GP-16 (6-8) **Lab ID: 40180602006** Collected: 12/05/18 10:55 Received: 12/06/18 13:40 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	4.4J	mg/kg	5.9	1.2	1	12/14/18 08:48	12/17/18 12:03	7440-38-2	
Barium	63.2	mg/kg	0.59	0.18	1	12/14/18 08:48	12/17/18 12:03	7440-39-3	
Cadmium	<0.16	mg/kg	0.59	0.16	1	12/14/18 08:48	12/17/18 12:03	7440-43-9	
Chromium	17.7	mg/kg	1.2	0.33	1	12/14/18 08:48	12/17/18 12:03	7440-47-3	
Lead	8.0	mg/kg	2.4	0.71	1	12/14/18 08:48	12/17/18 12:03	7439-92-1	
Selenium	<1.6	mg/kg	5.2	1.6	1	12/14/18 08:48	12/17/18 12:03	7782-49-2	
Silver	<0.41	mg/kg	1.2	0.41	1	12/14/18 08:48	12/17/18 12:03	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.016J	mg/kg	0.041	0.012	1	12/14/18 12:08	12/17/18 09:47	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<0.0047	mg/kg	0.016	0.0047	1	12/11/18 09:01	12/11/18 16:33	83-32-9	
Acenaphthylene	<0.0040	mg/kg	0.013	0.0040	1	12/11/18 09:01	12/11/18 16:33	208-96-8	
Anthracene	<0.0069	mg/kg	0.023	0.0069	1	12/11/18 09:01	12/11/18 16:33	120-12-7	
Benzo(a)anthracene	<0.0039	mg/kg	0.013	0.0039	1	12/11/18 09:01	12/11/18 16:33	56-55-3	
Benzo(a)pyrene	<0.0031	mg/kg	0.010	0.0031	1	12/11/18 09:01	12/11/18 16:33	50-32-8	
Benzo(b)fluoranthene	<0.0034	mg/kg	0.011	0.0034	1	12/11/18 09:01	12/11/18 16:33	205-99-2	
Benzo(g,h,i)perylene	<0.0025	mg/kg	0.0082	0.0025	1	12/11/18 09:01	12/11/18 16:33	191-24-2	
Benzo(k)fluoranthene	<0.0030	mg/kg	0.010	0.0030	1	12/11/18 09:01	12/11/18 16:33	207-08-9	
Chrysene	<0.0041	mg/kg	0.014	0.0041	1	12/11/18 09:01	12/11/18 16:33	218-01-9	
Dibenz(a,h)anthracene	<0.0027	mg/kg	0.0091	0.0027	1	12/11/18 09:01	12/11/18 16:33	53-70-3	
Fluoranthene	<0.0063	mg/kg	0.021	0.0063	1	12/11/18 09:01	12/11/18 16:33	206-44-0	
Fluorene	<0.0050	mg/kg	0.017	0.0050	1	12/11/18 09:01	12/11/18 16:33	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0027	mg/kg	0.0089	0.0027	1	12/11/18 09:01	12/11/18 16:33	193-39-5	

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40180602

Sample: GP-16 (6-8) **Lab ID: 40180602006** Collected: 12/05/18 10:55 Received: 12/06/18 13:40 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
1-Methylnaphthalene	<0.0049	mg/kg	0.016	0.0049	1	12/11/18 09:01	12/11/18 16:33	90-12-0	
2-Methylnaphthalene	<0.0061	mg/kg	0.020	0.0061	1	12/11/18 09:01	12/11/18 16:33	91-57-6	
Naphthalene	<0.010	mg/kg	0.034	0.010	1	12/11/18 09:01	12/11/18 16:33	91-20-3	
Phenanthrene	<0.014	mg/kg	0.047	0.014	1	12/11/18 09:01	12/11/18 16:33	85-01-8	
Pyrene	<0.0055	mg/kg	0.018	0.0055	1	12/11/18 09:01	12/11/18 16:33	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	72	%	10-115		1	12/11/18 09:01	12/11/18 16:33	321-60-8	
Terphenyl-d14 (S)	58	%	10-121		1	12/11/18 09:01	12/11/18 16:33	1718-51-0	
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	630-20-6	W
1,1,1-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	71-55-6	W
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	79-34-5	W
1,1,2-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	79-00-5	W
1,1-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	75-34-3	W
1,1-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	75-35-4	W
1,1-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	563-58-6	W
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	87-61-6	W
1,2,3-Trichloropropane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	96-18-4	W
1,2,4-Trichlorobenzene	<0.048	mg/kg	0.25	0.048	1	12/07/18 08:15	12/07/18 15:01	120-82-1	W
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	95-63-6	W
1,2-Dibromo-3-chloropropane	<0.091	mg/kg	0.25	0.091	1	12/07/18 08:15	12/07/18 15:01	96-12-8	W
1,2-Dibromoethane (EDB)	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	106-93-4	W
1,2-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	95-50-1	W
1,2-Dichloroethane	0.22	mg/kg	0.073	0.030	1	12/07/18 08:15	12/07/18 15:01	107-06-2	
1,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	78-87-5	W
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	108-67-8	W
1,3-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	541-73-1	W
1,3-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	142-28-9	W
1,4-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	106-46-7	W
2,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	594-20-7	W
2-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	95-49-8	W
4-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	106-43-4	W
Benzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	71-43-2	W
Bromobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	108-86-1	W
Bromochloromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	74-97-5	W
Bromodichloromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	75-27-4	W
Bromoform	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	75-25-2	W
Bromomethane	<0.070	mg/kg	0.25	0.070	1	12/07/18 08:15	12/07/18 15:01	74-83-9	W
Carbon tetrachloride	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	56-23-5	W
Chlorobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	108-90-7	W
Chloroethane	<0.067	mg/kg	0.25	0.067	1	12/07/18 08:15	12/07/18 15:01	75-00-3	W
Chloroform	<0.046	mg/kg	0.25	0.046	1	12/07/18 08:15	12/07/18 15:01	67-66-3	W
Chloromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	74-87-3	W
Dibromochloromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	124-48-1	W

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40180602

Sample: GP-16 (6-8) **Lab ID: 40180602006** Collected: 12/05/18 10:55 Received: 12/06/18 13:40 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Dibromomethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	74-95-3	W
Dichlorodifluoromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	75-71-8	W
Diisopropyl ether	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	108-20-3	W
Ethylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	100-41-4	W
Hexachloro-1,3-butadiene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	87-68-3	W
Isopropylbenzene (Cumene)	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	98-82-8	W
Methyl-tert-butyl ether	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	1634-04-4	W
Methylene Chloride	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	75-09-2	W
Naphthalene	<0.040	mg/kg	0.25	0.040	1	12/07/18 08:15	12/07/18 15:01	91-20-3	W
Styrene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	100-42-5	W
Tetrachloroethene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	127-18-4	W
Toluene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	108-88-3	W
Trichloroethene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	79-01-6	W
Trichlorofluoromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	75-69-4	W
Vinyl chloride	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	75-01-4	L1,W
cis-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	156-59-2	W
cis-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	10061-01-5	W
m&p-Xylene	<0.050	mg/kg	0.12	0.050	1	12/07/18 08:15	12/07/18 15:01	179601-23-1	W
n-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	104-51-8	W
n-Propylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	103-65-1	W
o-Xylene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	95-47-6	W
p-Isopropyltoluene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	99-87-6	W
sec-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	135-98-8	W
tert-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	98-06-6	W
trans-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	156-60-5	W
trans-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:01	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	94	%	57-148		1	12/07/18 08:15	12/07/18 15:01	1868-53-7	
Toluene-d8 (S)	90	%	58-142		1	12/07/18 08:15	12/07/18 15:01	2037-26-5	
4-Bromofluorobenzene (S)	79	%	48-130		1	12/07/18 08:15	12/07/18 15:01	460-00-4	

Percent Moisture Analytical Method: ASTM D2974-87

Percent Moisture **17.8** % 0.10 0.10 1 12/11/18 14:19

Sample: GP-17 (1-3) **Lab ID: 40180602007** Collected: 12/05/18 11:10 Received: 12/06/18 13:40 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	3.1J	mg/kg	5.7	1.2	1	12/14/18 08:48	12/17/18 12:08	7440-38-2	
Barium	18.9	mg/kg	0.57	0.17	1	12/14/18 08:48	12/17/18 12:08	7440-39-3	
Cadmium	<0.15	mg/kg	0.57	0.15	1	12/14/18 08:48	12/17/18 12:08	7440-43-9	

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40180602

Sample: GP-17 (1-3) **Lab ID: 40180602007** Collected: 12/05/18 11:10 Received: 12/06/18 13:40 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Chromium	8.9	mg/kg	1.1	0.32	1	12/14/18 08:48	12/17/18 12:08	7440-47-3	
Lead	4.3	mg/kg	2.3	0.68	1	12/14/18 08:48	12/17/18 12:08	7439-92-1	
Selenium	<1.5	mg/kg	5.0	1.5	1	12/14/18 08:48	12/17/18 12:08	7782-49-2	
Silver	<0.39	mg/kg	1.1	0.39	1	12/14/18 08:48	12/17/18 12:08	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.011	mg/kg	0.038	0.011	1	12/14/18 12:08	12/17/18 09:54	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<0.0044	mg/kg	0.015	0.0044	1	12/12/18 08:38	12/12/18 15:09	83-32-9	
Acenaphthylene	<0.0038	mg/kg	0.013	0.0038	1	12/12/18 08:38	12/12/18 15:09	208-96-8	
Anthracene	<0.0065	mg/kg	0.022	0.0065	1	12/12/18 08:38	12/12/18 15:09	120-12-7	
Benzo(a)anthracene	<0.0036	mg/kg	0.012	0.0036	1	12/12/18 08:38	12/12/18 15:09	56-55-3	
Benzo(a)pyrene	0.0042J	mg/kg	0.0095	0.0029	1	12/12/18 08:38	12/12/18 15:09	50-32-8	
Benzo(b)fluoranthene	0.0045J	mg/kg	0.011	0.0032	1	12/12/18 08:38	12/12/18 15:09	205-99-2	L1
Benzo(g,h,i)perylene	0.0045J	mg/kg	0.0077	0.0023	1	12/12/18 08:38	12/12/18 15:09	191-24-2	
Benzo(k)fluoranthene	0.0049J	mg/kg	0.0095	0.0029	1	12/12/18 08:38	12/12/18 15:09	207-08-9	
Chrysene	0.0067J	mg/kg	0.013	0.0038	1	12/12/18 08:38	12/12/18 15:09	218-01-9	
Dibenz(a,h)anthracene	<0.0025	mg/kg	0.0085	0.0025	1	12/12/18 08:38	12/12/18 15:09	53-70-3	
Fluoranthene	0.0071J	mg/kg	0.020	0.0059	1	12/12/18 08:38	12/12/18 15:09	206-44-0	
Fluorene	<0.0047	mg/kg	0.016	0.0047	1	12/12/18 08:38	12/12/18 15:09	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0025	mg/kg	0.0084	0.0025	1	12/12/18 08:38	12/12/18 15:09	193-39-5	
1-Methylnaphthalene	<0.0046	mg/kg	0.015	0.0046	1	12/12/18 08:38	12/12/18 15:09	90-12-0	
2-Methylnaphthalene	<0.0057	mg/kg	0.019	0.0057	1	12/12/18 08:38	12/12/18 15:09	91-57-6	
Naphthalene	<0.0096	mg/kg	0.032	0.0096	1	12/12/18 08:38	12/12/18 15:09	91-20-3	
Phenanthrene	<0.013	mg/kg	0.044	0.013	1	12/12/18 08:38	12/12/18 15:09	85-01-8	
Pyrene	0.0064J	mg/kg	0.017	0.0051	1	12/12/18 08:38	12/12/18 15:09	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	62	%	10-115		1	12/12/18 08:38	12/12/18 15:09	321-60-8	
Terphenyl-d14 (S)	53	%	10-121		1	12/12/18 08:38	12/12/18 15:09	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	630-20-6	W
1,1,1-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	71-55-6	W
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	79-34-5	W
1,1,2-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	79-00-5	W
1,1-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	75-34-3	W
1,1-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	75-35-4	W
1,1-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	563-58-6	W
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	87-61-6	W
1,2,3-Trichloropropane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	96-18-4	W
1,2,4-Trichlorobenzene	<0.048	mg/kg	0.25	0.048	1	12/07/18 08:15	12/07/18 15:24	120-82-1	W
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	95-63-6	W
1,2-Dibromo-3-chloropropane	<0.091	mg/kg	0.25	0.091	1	12/07/18 08:15	12/07/18 15:24	96-12-8	W
1,2-Dibromoethane (EDB)	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	106-93-4	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40180602

Sample: GP-17 (1-3) Lab ID: 40180602007 Collected: 12/05/18 11:10 Received: 12/06/18 13:40 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,2-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	95-50-1	W
1,2-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	107-06-2	W
1,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	78-87-5	W
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	108-67-8	W
1,3-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	541-73-1	W
1,3-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	142-28-9	W
1,4-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	106-46-7	W
2,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	594-20-7	W
2-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	95-49-8	W
4-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	106-43-4	W
Benzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	71-43-2	W
Bromobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	108-86-1	W
Bromochloromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	74-97-5	W
Bromodichloromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	75-27-4	W
Bromoform	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	75-25-2	W
Bromomethane	<0.070	mg/kg	0.25	0.070	1	12/07/18 08:15	12/07/18 15:24	74-83-9	W
Carbon tetrachloride	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	56-23-5	W
Chlorobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	108-90-7	W
Chloroethane	<0.067	mg/kg	0.25	0.067	1	12/07/18 08:15	12/07/18 15:24	75-00-3	W
Chloroform	<0.046	mg/kg	0.25	0.046	1	12/07/18 08:15	12/07/18 15:24	67-66-3	W
Chloromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	74-87-3	W
Dibromochloromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	124-48-1	W
Dibromomethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	74-95-3	W
Dichlorodifluoromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	75-71-8	W
Diisopropyl ether	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	108-20-3	W
Ethylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	100-41-4	W
Hexachloro-1,3-butadiene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	87-68-3	W
Isopropylbenzene (Cumene)	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	98-82-8	W
Methyl-tert-butyl ether	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	1634-04-4	W
Methylene Chloride	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	75-09-2	W
Naphthalene	<0.040	mg/kg	0.25	0.040	1	12/07/18 08:15	12/07/18 15:24	91-20-3	W
Styrene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	100-42-5	W
Tetrachloroethene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	127-18-4	W
Toluene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	108-88-3	W
Trichloroethene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	79-01-6	W
Trichlorofluoromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	75-69-4	W
Vinyl chloride	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	75-01-4	L1,W
cis-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	156-59-2	W
cis-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	10061-01-5	W
m&p-Xylene	<0.050	mg/kg	0.12	0.050	1	12/07/18 08:15	12/07/18 15:24	179601-23-1	W
n-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	104-51-8	W
n-Propylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	103-65-1	W
o-Xylene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	95-47-6	W
p-Isopropyltoluene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	99-87-6	W
sec-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	135-98-8	W

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40180602

Sample: GP-17 (1-3) **Lab ID: 40180602007** Collected: 12/05/18 11:10 Received: 12/06/18 13:40 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
tert-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	98-06-6	W
trans-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	156-60-5	W
trans-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 15:24	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	112	%	57-148		1	12/07/18 08:15	12/07/18 15:24	1868-53-7	
Toluene-d8 (S)	106	%	58-142		1	12/07/18 08:15	12/07/18 15:24	2037-26-5	
4-Bromofluorobenzene (S)	93	%	48-130		1	12/07/18 08:15	12/07/18 15:24	460-00-4	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	12.4	%	0.10	0.10	1		12/11/18 14:19		

Sample: TRIP BLANK **Lab ID: 40180602008** Collected: 12/05/18 00:00 Received: 12/06/18 13:40 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	630-20-6	W
1,1,1-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	71-55-6	W
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	79-34-5	W
1,1,2-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	79-00-5	W
1,1-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	75-34-3	W
1,1-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	75-35-4	W
1,1-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	563-58-6	W
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	87-61-6	W
1,2,3-Trichloropropane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	96-18-4	W
1,2,4-Trichlorobenzene	<0.048	mg/kg	0.25	0.048	1	12/07/18 08:15	12/07/18 12:24	120-82-1	W
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	95-63-6	W
1,2-Dibromo-3-chloropropane	<0.091	mg/kg	0.25	0.091	1	12/07/18 08:15	12/07/18 12:24	96-12-8	W
1,2-Dibromoethane (EDB)	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	106-93-4	W
1,2-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	95-50-1	W
1,2-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	107-06-2	W
1,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	78-87-5	W
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	108-67-8	W
1,3-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	541-73-1	W
1,3-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	142-28-9	W
1,4-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	106-46-7	W
2,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	594-20-7	W
2-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	95-49-8	W
4-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	106-43-4	W
Benzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	71-43-2	W
Bromobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	108-86-1	W
Bromochloromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	74-97-5	W

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40180602

Sample: TRIP BLANK Lab ID: 40180602008 Collected: 12/05/18 00:00 Received: 12/06/18 13:40 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Bromodichloromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	75-27-4	W
Bromoform	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	75-25-2	W
Bromomethane	<0.070	mg/kg	0.25	0.070	1	12/07/18 08:15	12/07/18 12:24	74-83-9	W
Carbon tetrachloride	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	56-23-5	W
Chlorobenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	108-90-7	W
Chloroethane	<0.067	mg/kg	0.25	0.067	1	12/07/18 08:15	12/07/18 12:24	75-00-3	W
Chloroform	<0.046	mg/kg	0.25	0.046	1	12/07/18 08:15	12/07/18 12:24	67-66-3	W
Chloromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	74-87-3	W
Dibromochloromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	124-48-1	W
Dibromomethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	74-95-3	W
Dichlorodifluoromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	75-71-8	W
Diisopropyl ether	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	108-20-3	W
Ethylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	100-41-4	W
Hexachloro-1,3-butadiene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	87-68-3	W
Isopropylbenzene (Cumene)	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	98-82-8	W
Methyl-tert-butyl ether	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	1634-04-4	W
Methylene Chloride	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	75-09-2	W
Naphthalene	<0.040	mg/kg	0.25	0.040	1	12/07/18 08:15	12/07/18 12:24	91-20-3	W
Styrene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	100-42-5	W
Tetrachloroethene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	127-18-4	W
Toluene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	108-88-3	W
Trichloroethene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	79-01-6	W
Trichlorofluoromethane	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	75-69-4	W
Vinyl chloride	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	75-01-4	L1,W
cis-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	156-59-2	W
cis-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	10061-01-5	W
m&p-Xylene	<0.050	mg/kg	0.12	0.050	1	12/07/18 08:15	12/07/18 12:24	179601-23-1	W
n-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	104-51-8	W
n-Propylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	103-65-1	W
o-Xylene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	95-47-6	W
p-Isopropyltoluene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	99-87-6	W
sec-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	135-98-8	W
tert-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	98-06-6	W
trans-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	156-60-5	W
trans-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	12/07/18 08:15	12/07/18 12:24	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	111	%	57-148		1	12/07/18 08:15	12/07/18 12:24	1868-53-7	
Toluene-d8 (S)	104	%	58-142		1	12/07/18 08:15	12/07/18 12:24	2037-26-5	
4-Bromofluorobenzene (S)	98	%	48-130		1	12/07/18 08:15	12/07/18 12:24	460-00-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40180602

QC Batch: 309088 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 40180602001, 40180602002, 40180602003, 40180602004, 40180602005, 40180602006, 40180602007

METHOD BLANK: 1805454 Matrix: Solid
Associated Lab Samples: 40180602001, 40180602002, 40180602003, 40180602004, 40180602005, 40180602006, 40180602007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<1.0	5.0	12/17/18 11:05	
Barium	mg/kg	<0.15	0.50	12/17/18 11:05	
Cadmium	mg/kg	<0.13	0.50	12/17/18 11:05	
Chromium	mg/kg	<0.28	1.0	12/17/18 11:05	
Lead	mg/kg	<0.60	2.0	12/17/18 11:05	
Selenium	mg/kg	<1.3	4.4	12/17/18 11:05	
Silver	mg/kg	<0.34	1.0	12/17/18 11:05	

LABORATORY CONTROL SAMPLE & LCSD: 1805455

Parameter	Units	1805456								Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	
Arsenic	mg/kg	50	47.0	47.8	94	96	80-120	2	20	
Barium	mg/kg	50	50.6	51.9	101	104	80-120	2	20	
Cadmium	mg/kg	50	49.1	50.4	98	101	80-120	3	20	
Chromium	mg/kg	50	51.1	52.6	102	105	80-120	3	20	
Lead	mg/kg	50	50.2	51.4	100	103	80-120	2	20	
Selenium	mg/kg	50	49.2	51.6	98	103	80-120	5	20	
Silver	mg/kg	25	24.8	25.6	99	102	80-120	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1805457

Parameter	Units	1805458										
		40180907001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	4.5J	53.6	53.6	54.1	52.6	93	90	75-125	3	20	
Barium	mg/kg	28.3	53.6	53.6	91.4	98.4	118	131	75-125	7	20	M0
Cadmium	mg/kg	<0.14	53.6	53.6	55.4	54.2	103	101	75-125	2	20	
Chromium	mg/kg	10.2	53.6	53.6	65.5	66.4	103	105	75-125	1	20	
Lead	mg/kg	5.2	53.6	53.6	61.7	57.0	105	97	75-125	8	20	
Selenium	mg/kg	<1.4	53.6	53.6	55.0	53.7	103	100	75-125	3	20	
Silver	mg/kg	<0.37	26.9	26.8	27.4	26.9	102	100	75-125	2	20	

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QUALITY CONTROL DATA

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40180602

METHOD BLANK: 1802982

Matrix: Solid

Associated Lab Samples: 40180602001, 40180602002, 40180602003, 40180602004, 40180602005, 40180602006, 40180602007, 40180602008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	mg/kg	<0.012	0.050	12/07/18 10:07	
Hexachloro-1,3-butadiene	mg/kg	<0.024	0.050	12/07/18 10:07	
Isopropylbenzene (Cumene)	mg/kg	<0.013	0.050	12/07/18 10:07	
m&p-Xylene	mg/kg	<0.034	0.10	12/07/18 10:07	
Methyl-tert-butyl ether	mg/kg	<0.013	0.050	12/07/18 10:07	
Methylene Chloride	mg/kg	<0.016	0.050	12/07/18 10:07	
n-Butylbenzene	mg/kg	<0.011	0.050	12/07/18 10:07	
n-Propylbenzene	mg/kg	<0.012	0.050	12/07/18 10:07	
Naphthalene	mg/kg	<0.040	0.25	12/07/18 10:07	
o-Xylene	mg/kg	<0.014	0.050	12/07/18 10:07	
p-Isopropyltoluene	mg/kg	<0.012	0.050	12/07/18 10:07	
sec-Butylbenzene	mg/kg	<0.012	0.050	12/07/18 10:07	
Styrene	mg/kg	<0.0090	0.050	12/07/18 10:07	
tert-Butylbenzene	mg/kg	<0.0095	0.050	12/07/18 10:07	
Tetrachloroethene	mg/kg	<0.013	0.050	12/07/18 10:07	
Toluene	mg/kg	<0.011	0.050	12/07/18 10:07	
trans-1,2-Dichloroethene	mg/kg	<0.016	0.050	12/07/18 10:07	
trans-1,3-Dichloropropene	mg/kg	<0.014	0.050	12/07/18 10:07	
Trichloroethene	mg/kg	<0.024	0.050	12/07/18 10:07	
Trichlorofluoromethane	mg/kg	<0.025	0.050	12/07/18 10:07	
Vinyl chloride	mg/kg	<0.021	0.050	12/07/18 10:07	
4-Bromofluorobenzene (S)	%	87	48-130	12/07/18 10:07	
Dibromofluoromethane (S)	%	102	57-148	12/07/18 10:07	
Toluene-d8 (S)	%	98	58-142	12/07/18 10:07	

LABORATORY CONTROL SAMPLE: 1802983

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/kg	2.5	2.9	116	70-130	
1,1,2,2-Tetrachloroethane	mg/kg	2.5	2.6	106	68-130	
1,1,2-Trichloroethane	mg/kg	2.5	2.7	109	70-130	
1,1-Dichloroethane	mg/kg	2.5	3.0	121	67-132	
1,1-Dichloroethene	mg/kg	2.5	2.8	114	67-128	
1,2,4-Trichlorobenzene	mg/kg	2.5	2.7	108	51-131	
1,2-Dibromo-3-chloropropane	mg/kg	2.5	2.6	102	49-117	
1,2-Dibromoethane (EDB)	mg/kg	2.5	2.4	98	70-130	
1,2-Dichlorobenzene	mg/kg	2.5	2.7	109	70-130	
1,2-Dichloroethane	mg/kg	2.5	2.9	115	65-137	
1,2-Dichloropropane	mg/kg	2.5	3.0	119	75-126	
1,3-Dichlorobenzene	mg/kg	2.5	2.7	108	70-130	
1,4-Dichlorobenzene	mg/kg	2.5	2.5	102	70-130	
Benzene	mg/kg	2.5	2.9	116	70-130	
Bromodichloromethane	mg/kg	2.5	2.9	116	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40180602

LABORATORY CONTROL SAMPLE: 1802983

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	mg/kg	2.5	2.3	91	57-117	
Bromomethane	mg/kg	2.5	2.8	113	48-135	
Carbon tetrachloride	mg/kg	2.5	2.9	116	65-133	
Chlorobenzene	mg/kg	2.5	2.8	110	70-130	
Chloroethane	mg/kg	2.5	3.2	129	37-165	
Chloroform	mg/kg	2.5	2.9	116	72-126	
Chloromethane	mg/kg	2.5	2.8	113	34-120	
cis-1,2-Dichloroethene	mg/kg	2.5	2.9	114	70-130	
cis-1,3-Dichloropropene	mg/kg	2.5	2.6	103	69-130	
Dibromochloromethane	mg/kg	2.5	2.7	109	68-130	
Dichlorodifluoromethane	mg/kg	2.5	2.5	99	22-100	
Ethylbenzene	mg/kg	2.5	2.9	114	79-121	
Isopropylbenzene (Cumene)	mg/kg	2.5	3.0	121	70-130	
m&p-Xylene	mg/kg	5	5.7	114	70-130	
Methyl-tert-butyl ether	mg/kg	2.5	2.5	100	66-129	
Methylene Chloride	mg/kg	2.5	2.7	107	68-129	
o-Xylene	mg/kg	2.5	3.0	118	70-130	
Styrene	mg/kg	2.5	2.6	106	70-130	
Tetrachloroethene	mg/kg	2.5	2.9	115	70-130	
Toluene	mg/kg	2.5	2.8	113	80-123	
trans-1,2-Dichloroethene	mg/kg	2.5	2.6	104	70-130	
trans-1,3-Dichloropropene	mg/kg	2.5	2.4	98	67-130	
Trichloroethene	mg/kg	2.5	3.0	119	70-130	
Trichlorofluoromethane	mg/kg	2.5	3.0	118	64-134	
Vinyl chloride	mg/kg	2.5	3.1	126	52-122 L1	
4-Bromofluorobenzene (S)	%			107	48-130	
Dibromofluoromethane (S)	%			107	57-148	
Toluene-d8 (S)	%			102	58-142	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1802984 1802985

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40180602003 Result	Spike Conc.	Spike Conc.	Result							
1,1,1-Trichloroethane	mg/kg	<0.025	1.4	1.4	1.7	1.7	112	112	62-130	0	20	
1,1,2,2-Tetrachloroethane	mg/kg	<0.025	1.4	1.4	1.6	1.7	108	116	64-137	7	20	
1,1,2-Trichloroethane	mg/kg	<0.025	1.4	1.4	1.7	1.7	111	116	70-130	4	20	
1,1-Dichloroethane	mg/kg	<0.025	1.4	1.4	1.6	1.7	110	113	65-132	2	20	
1,1-Dichloroethene	mg/kg	<0.025	1.4	1.4	1.5	1.5	97	99	50-128	2	21	
1,2,4-Trichlorobenzene	mg/kg	<0.048	1.4	1.4	1.7	1.8	116	118	51-148	2	20	
1,2-Dibromo-3-chloropropane	mg/kg	<0.091	1.4	1.4	1.5	1.7	102	111	43-134	8	23	
1,2-Dibromoethane (EDB)	mg/kg	<0.025	1.4	1.4	1.5	1.5	98	103	70-130	4	20	
1,2-Dichlorobenzene	mg/kg	<0.025	1.4	1.4	1.7	1.7	114	114	70-130	0	20	
1,2-Dichloroethane	mg/kg	<0.025	1.4	1.4	1.7	1.7	112	112	65-139	1	20	
1,2-Dichloropropane	mg/kg	<0.025	1.4	1.4	1.7	1.6	111	110	74-128	2	20	

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QUALITY CONTROL DATA

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40180602

Parameter	Units	1802984		1802985		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40180602003 Result	MS Spike Conc.	MSD Spike Conc.	MSD Result							
1,3-Dichlorobenzene	mg/kg	<0.025	1.4	1.4	1.7	1.7	111	113	70-130	2	20	
1,4-Dichlorobenzene	mg/kg	<0.025	1.4	1.4	1.7	1.6	117	109	70-130	7	20	
Benzene	mg/kg	<0.025	1.4	1.4	1.6	1.6	109	109	66-132	0	20	
Bromodichloromethane	mg/kg	<0.025	1.4	1.4	1.6	1.7	108	111	69-130	3	20	
Bromoform	mg/kg	<0.025	1.4	1.4	1.5	1.6	99	104	57-130	5	20	
Bromomethane	mg/kg	<0.070	1.4	1.4	1.3	1.3	85	86	34-145	1	20	
Carbon tetrachloride	mg/kg	<0.025	1.4	1.4	1.6	1.6	110	108	54-133	2	20	
Chlorobenzene	mg/kg	<0.025	1.4	1.4	1.6	1.7	109	112	70-130	2	20	
Chloroethane	mg/kg	<0.067	1.4	1.4	1.7	1.7	111	111	33-165	0	20	
Chloroform	mg/kg	<0.046	1.4	1.4	1.7	1.7	112	112	72-128	0	20	
Chloromethane	mg/kg	<0.025	1.4	1.4	1.1	1.1	71	74	20-120	4	20	
cis-1,2-Dichloroethene	mg/kg	<0.025	1.4	1.4	1.5	1.6	103	107	69-130	4	20	
cis-1,3-Dichloropropene	mg/kg	<0.025	1.4	1.4	1.5	1.6	98	104	65-130	6	20	
Dibromochloromethane	mg/kg	<0.025	1.4	1.4	1.6	1.7	105	111	65-130	6	20	
Dichlorodifluoromethane	mg/kg	<0.025	1.4	1.4	0.77	0.77	51	52	10-109	1	29	
Ethylbenzene	mg/kg	<0.025	1.4	1.4	1.6	1.7	108	112	63-127	4	20	
Isopropylbenzene (Cumene)	mg/kg	<0.025	1.4	1.4	1.7	1.7	114	116	66-130	2	20	
m&p-Xylene	mg/kg	<0.050	3	3	3.3	3.4	112	115	70-130	3	20	
Methyl-tert-butyl ether	mg/kg	<0.025	1.4	1.4	1.4	1.6	95	105	62-135	9	20	
Methylene Chloride	mg/kg	<0.025	1.4	1.4	1.5	1.5	101	102	68-129	1	20	
o-Xylene	mg/kg	<0.025	1.4	1.4	1.7	1.7	114	113	69-130	1	20	
Styrene	mg/kg	<0.025	1.4	1.4	1.5	1.5	102	100	70-130	2	20	
Tetrachloroethene	mg/kg	<0.025	1.4	1.4	1.6	1.7	109	115	70-130	6	20	
Toluene	mg/kg	<0.025	1.4	1.4	1.7	1.7	112	112	80-123	0	20	
trans-1,2-Dichloroethene	mg/kg	<0.025	1.4	1.4	1.5	1.5	101	103	70-130	2	20	
trans-1,3-Dichloropropene	mg/kg	<0.025	1.4	1.4	1.4	1.5	94	99	67-130	5	20	
Trichloroethene	mg/kg	<0.025	1.4	1.4	1.7	1.7	111	115	70-130	4	20	
Trichlorofluoromethane	mg/kg	<0.025	1.4	1.4	1.6	1.5	104	102	41-134	2	26	
Vinyl chloride	mg/kg	<0.025	1.4	1.4	1.3	1.3	86	87	39-122	1	20	
4-Bromofluorobenzene (S)	%						87	91	48-130			
Dibromofluoromethane (S)	%						92	93	57-148			
Toluene-d8 (S)	%						90	90	58-142			

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QUALITY CONTROL DATA

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40180602

QC Batch: 308890 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 40180602001, 40180602002, 40180602003, 40180602004, 40180602005, 40180602006

METHOD BLANK: 1804409 Matrix: Solid
Associated Lab Samples: 40180602001, 40180602002, 40180602003, 40180602004, 40180602005, 40180602006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	<0.0040	0.013	12/11/18 12:13	
2-Methylnaphthalene	mg/kg	<0.0050	0.017	12/11/18 12:13	
Acenaphthene	mg/kg	<0.0039	0.013	12/11/18 12:13	
Acenaphthylene	mg/kg	<0.0033	0.011	12/11/18 12:13	
Anthracene	mg/kg	<0.0057	0.019	12/11/18 12:13	
Benzo(a)anthracene	mg/kg	<0.0032	0.011	12/11/18 12:13	
Benzo(a)pyrene	mg/kg	<0.0025	0.0084	12/11/18 12:13	
Benzo(b)fluoranthene	mg/kg	<0.0028	0.0094	12/11/18 12:13	
Benzo(g,h,i)perylene	mg/kg	<0.0020	0.0068	12/11/18 12:13	
Benzo(k)fluoranthene	mg/kg	<0.0025	0.0084	12/11/18 12:13	
Chrysene	mg/kg	<0.0034	0.011	12/11/18 12:13	
Dibenz(a,h)anthracene	mg/kg	<0.0022	0.0074	12/11/18 12:13	
Fluoranthene	mg/kg	<0.0052	0.017	12/11/18 12:13	
Fluorene	mg/kg	<0.0041	0.014	12/11/18 12:13	
Indeno(1,2,3-cd)pyrene	mg/kg	<0.0022	0.0073	12/11/18 12:13	
Naphthalene	mg/kg	<0.0084	0.028	12/11/18 12:13	
Phenanthrene	mg/kg	<0.012	0.039	12/11/18 12:13	
Pyrene	mg/kg	<0.0045	0.015	12/11/18 12:13	
2-Fluorobiphenyl (S)	%	76	10-115	12/11/18 12:13	
Terphenyl-d14 (S)	%	68	10-121	12/11/18 12:13	

LABORATORY CONTROL SAMPLE: 1804410

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	0.33	0.24	71	45-103	
2-Methylnaphthalene	mg/kg	0.33	0.24	71	43-98	
Acenaphthene	mg/kg	0.33	0.29	86	43-100	
Acenaphthylene	mg/kg	0.33	0.29	86	40-100	
Anthracene	mg/kg	0.33	0.25	74	50-113	
Benzo(a)anthracene	mg/kg	0.33	0.27	81	49-102	
Benzo(a)pyrene	mg/kg	0.33	0.31	92	51-105	
Benzo(b)fluoranthene	mg/kg	0.33	0.32	95	49-105	
Benzo(g,h,i)perylene	mg/kg	0.33	0.27	81	34-113	
Benzo(k)fluoranthene	mg/kg	0.33	0.31	93	54-110	
Chrysene	mg/kg	0.33	0.28	84	55-116	
Dibenz(a,h)anthracene	mg/kg	0.33	0.29	86	45-108	
Fluoranthene	mg/kg	0.33	0.29	86	50-118	
Fluorene	mg/kg	0.33	0.30	92	41-103	
Indeno(1,2,3-cd)pyrene	mg/kg	0.33	0.29	88	43-115	
Naphthalene	mg/kg	0.33	0.25	76	44-92	

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QUALITY CONTROL DATA

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40180602

LABORATORY CONTROL SAMPLE: 1804410

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	mg/kg	0.33	0.25	76	51-104	
Pyrene	mg/kg	0.33	0.31	92	51-106	
2-Fluorobiphenyl (S)	%			73	10-115	
Terphenyl-d14 (S)	%			87	10-121	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1804411 1804412

Parameter	Units	1804411		1804412		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
1-Methylnaphthalene	mg/kg	<0.0047	0.39	0.39	0.25	0.26	63	67	21-105	5	30	
2-Methylnaphthalene	mg/kg	<0.0059	0.39	0.39	0.26	0.27	65	68	18-103	4	29	
Acenaphthene	mg/kg	<0.0046	0.39	0.39	0.32	0.32	81	82	31-100	1	28	
Acenaphthylene	mg/kg	<0.0039	0.39	0.39	0.31	0.31	78	80	30-100	2	27	
Anthracene	mg/kg	<0.0067	0.39	0.39	0.28	0.27	71	69	27-113	2	30	
Benzo(a)anthracene	mg/kg	<0.0037	0.39	0.39	0.29	0.28	74	71	28-102	4	30	
Benzo(a)pyrene	mg/kg	<0.0030	0.39	0.39	0.34	0.32	85	81	27-105	6	32	
Benzo(b)fluoranthene	mg/kg	<0.0033	0.39	0.39	0.35	0.36	89	90	24-109	2	37	
Benzo(g,h,i)perylene	mg/kg	<0.0024	0.39	0.39	0.19	0.18	48	46	10-113	5	38	
Benzo(k)fluoranthene	mg/kg	<0.0030	0.39	0.39	0.38	0.35	96	88	35-110	8	31	
Chrysene	mg/kg	<0.0040	0.39	0.39	0.30	0.29	77	74	29-116	4	29	
Dibenz(a,h)anthracene	mg/kg	<0.0026	0.39	0.39	0.23	0.22	59	57	22-108	5	32	
Fluoranthene	mg/kg	<0.0061	0.39	0.39	0.32	0.31	80	77	27-118	4	34	
Fluorene	mg/kg	<0.0049	0.39	0.39	0.34	0.33	86	85	31-103	0	28	
Indeno(1,2,3-cd)pyrene	mg/kg	<0.0026	0.39	0.39	0.23	0.22	59	56	18-115	5	33	
Naphthalene	mg/kg	<0.0099	0.39	0.39	0.26	0.29	65	74	34-92	13	31	
Phenanthrene	mg/kg	<0.014	0.39	0.39	0.28	0.27	71	69	28-104	3	32	
Pyrene	mg/kg	<0.0053	0.39	0.39	0.29	0.28	74	69	13-117	7	40	
2-Fluorobiphenyl (S)	%						57	58	10-115			
Terphenyl-d14 (S)	%						59	58	10-121			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40180602

QC Batch: 308982 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 40180602007

METHOD BLANK: 1804810 Matrix: Solid
Associated Lab Samples: 40180602007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	<0.0040	0.013	12/12/18 11:41	
2-Methylnaphthalene	mg/kg	<0.0050	0.017	12/12/18 11:41	
Acenaphthene	mg/kg	<0.0039	0.013	12/12/18 11:41	
Acenaphthylene	mg/kg	<0.0033	0.011	12/12/18 11:41	
Anthracene	mg/kg	<0.0057	0.019	12/12/18 11:41	
Benzo(a)anthracene	mg/kg	<0.0032	0.011	12/12/18 11:41	
Benzo(a)pyrene	mg/kg	<0.0025	0.0084	12/12/18 11:41	
Benzo(b)fluoranthene	mg/kg	<0.0028	0.0094	12/12/18 11:41	
Benzo(g,h,i)perylene	mg/kg	<0.0020	0.0068	12/12/18 11:41	
Benzo(k)fluoranthene	mg/kg	<0.0025	0.0084	12/12/18 11:41	
Chrysene	mg/kg	<0.0034	0.011	12/12/18 11:41	
Dibenz(a,h)anthracene	mg/kg	<0.0022	0.0074	12/12/18 11:41	
Fluoranthene	mg/kg	<0.0052	0.017	12/12/18 11:41	
Fluorene	mg/kg	<0.0041	0.014	12/12/18 11:41	
Indeno(1,2,3-cd)pyrene	mg/kg	<0.0022	0.0073	12/12/18 11:41	
Naphthalene	mg/kg	<0.0084	0.028	12/12/18 11:41	
Phenanthrene	mg/kg	<0.012	0.039	12/12/18 11:41	
Pyrene	mg/kg	<0.0045	0.015	12/12/18 11:41	
2-Fluorobiphenyl (S)	%	111	10-115	12/12/18 11:41	
Terphenyl-d14 (S)	%	78	10-121	12/12/18 11:41	

LABORATORY CONTROL SAMPLE: 1804811

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	0.33	0.26	77	45-103	
2-Methylnaphthalene	mg/kg	0.33	0.26	77	43-98	
Acenaphthene	mg/kg	0.33	0.32	96	43-100	
Acenaphthylene	mg/kg	0.33	0.32	96	40-100	
Anthracene	mg/kg	0.33	0.28	83	50-113	
Benzo(a)anthracene	mg/kg	0.33	0.30	89	49-102	
Benzo(a)pyrene	mg/kg	0.33	0.32	96	51-105	
Benzo(b)fluoranthene	mg/kg	0.33	0.38	113	49-105 L1	
Benzo(g,h,i)perylene	mg/kg	0.33	0.27	80	34-113	
Benzo(k)fluoranthene	mg/kg	0.33	0.32	95	54-110	
Chrysene	mg/kg	0.33	0.30	91	55-116	
Dibenz(a,h)anthracene	mg/kg	0.33	0.29	87	45-108	
Fluoranthene	mg/kg	0.33	0.32	95	50-118	
Fluorene	mg/kg	0.33	0.34	103	41-103	
Indeno(1,2,3-cd)pyrene	mg/kg	0.33	0.30	89	43-115	
Naphthalene	mg/kg	0.33	0.28	83	44-92	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40180602

LABORATORY CONTROL SAMPLE: 1804811

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	mg/kg	0.33	0.29	86	51-104	
Pyrene	mg/kg	0.33	0.27	82	51-106	
2-Fluorobiphenyl (S)	%			82	10-115	
Terphenyl-d14 (S)	%			78	10-121	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1804812 1804813

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40180602007 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1-Methylnaphthalene	mg/kg	<0.0046	0.38	0.38	0.25	0.25	65	67	21-105	3	30	
2-Methylnaphthalene	mg/kg	<0.0057	0.38	0.38	0.25	0.26	66	67	18-103	2	29	
Acenaphthene	mg/kg	<0.0044	0.38	0.38	0.30	0.32	78	85	31-100	9	28	
Acenaphthylene	mg/kg	<0.0038	0.38	0.38	0.29	0.31	77	83	30-100	7	27	
Anthracene	mg/kg	<0.0065	0.38	0.38	0.24	0.27	63	70	27-113	10	30	
Benzo(a)anthracene	mg/kg	<0.0036	0.38	0.38	0.26	0.28	67	74	28-102	10	30	
Benzo(a)pyrene	mg/kg	0.0042J	0.38	0.38	0.27	0.31	70	80	27-105	13	32	
Benzo(b)fluoranthene	mg/kg	0.0045J	0.38	0.38	0.29	0.34	74	88	24-109	16	37	
Benzo(g,h,i)perylene	mg/kg	0.0045J	0.38	0.38	0.24	0.28	61	73	10-113	18	38	
Benzo(k)fluoranthene	mg/kg	0.0049J	0.38	0.38	0.28	0.31	71	79	35-110	10	31	
Chrysene	mg/kg	0.0067J	0.38	0.38	0.27	0.30	68	76	29-116	10	29	
Dibenz(a,h)anthracene	mg/kg	<0.0025	0.38	0.38	0.25	0.30	64	78	22-108	19	32	
Fluoranthene	mg/kg	0.0071J	0.38	0.38	0.28	0.28	71	72	27-118	2	34	
Fluorene	mg/kg	<0.0047	0.38	0.38	0.31	0.33	81	88	31-103	8	28	
Indeno(1,2,3-cd)pyrene	mg/kg	<0.0025	0.38	0.38	0.26	0.30	67	79	18-115	15	33	
Naphthalene	mg/kg	<0.0096	0.38	0.38	0.27	0.28	70	73	34-92	3	31	
Phenanthrene	mg/kg	<0.013	0.38	0.38	0.25	0.28	65	71	28-104	9	32	
Pyrene	mg/kg	0.0064J	0.38	0.38	0.26	0.23	65	60	13-117	8	40	
2-Fluorobiphenyl (S)	%						61	66	10-115			
Terphenyl-d14 (S)	%						60	57	10-121			

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QUALITY CONTROL DATA

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40180602

QC Batch: 308947

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 40180602001, 40180602002, 40180602003, 40180602004, 40180602005, 40180602006, 40180602007

SAMPLE DUPLICATE: 1804671

Parameter	Units	40180775002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.2	7.1	0	10	

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QUALIFIERS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40180602

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 LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

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 at or above the adjusted LOD.

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-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

W Non-detect results are reported on a wet weight basis.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40180602

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40180602001	GP-13 (1-3)	EPA 3050	309088	EPA 6010	309359
40180602002	GP-14 (1-3)	EPA 3050	309088	EPA 6010	309359
40180602003	GP-14 (6-8)	EPA 3050	309088	EPA 6010	309359
40180602004	GP-15 (1-3)	EPA 3050	309088	EPA 6010	309359
40180602005	GP-16 (1-3)	EPA 3050	309088	EPA 6010	309359
40180602006	GP-16 (6-8)	EPA 3050	309088	EPA 6010	309359
40180602007	GP-17 (1-3)	EPA 3050	309088	EPA 6010	309359
40180602001	GP-13 (1-3)	EPA 7471	309254	EPA 7471	309272
40180602002	GP-14 (1-3)	EPA 7471	309254	EPA 7471	309272
40180602003	GP-14 (6-8)	EPA 7471	309254	EPA 7471	309272
40180602004	GP-15 (1-3)	EPA 7471	309254	EPA 7471	309272
40180602005	GP-16 (1-3)	EPA 7471	309254	EPA 7471	309272
40180602006	GP-16 (6-8)	EPA 7471	309254	EPA 7471	309272
40180602007	GP-17 (1-3)	EPA 7471	309254	EPA 7471	309272
40180602001	GP-13 (1-3)	EPA 3546	308890	EPA 8270 by SIM	308920
40180602002	GP-14 (1-3)	EPA 3546	308890	EPA 8270 by SIM	308920
40180602003	GP-14 (6-8)	EPA 3546	308890	EPA 8270 by SIM	308920
40180602004	GP-15 (1-3)	EPA 3546	308890	EPA 8270 by SIM	308920
40180602005	GP-16 (1-3)	EPA 3546	308890	EPA 8270 by SIM	308920
40180602006	GP-16 (6-8)	EPA 3546	308890	EPA 8270 by SIM	308920
40180602007	GP-17 (1-3)	EPA 3546	308982	EPA 8270 by SIM	309013
40180602001	GP-13 (1-3)	EPA 5035/5030B	308660	EPA 8260	308664
40180602002	GP-14 (1-3)	EPA 5035/5030B	308660	EPA 8260	308664
40180602003	GP-14 (6-8)	EPA 5035/5030B	308660	EPA 8260	308664
40180602004	GP-15 (1-3)	EPA 5035/5030B	308660	EPA 8260	308664
40180602005	GP-16 (1-3)	EPA 5035/5030B	308660	EPA 8260	308664
40180602006	GP-16 (6-8)	EPA 5035/5030B	308660	EPA 8260	308664
40180602007	GP-17 (1-3)	EPA 5035/5030B	308660	EPA 8260	308664
40180602008	TRIP BLANK	EPA 5035/5030B	308660	EPA 8260	308664
40180602001	GP-13 (1-3)	ASTM D2974-87	308947		
40180602002	GP-14 (1-3)	ASTM D2974-87	308947		
40180602003	GP-14 (6-8)	ASTM D2974-87	308947		
40180602004	GP-15 (1-3)	ASTM D2974-87	308947		
40180602005	GP-16 (1-3)	ASTM D2974-87	308947		
40180602006	GP-16 (6-8)	ASTM D2974-87	308947		
40180602007	GP-17 (1-3)	ASTM D2974-87	308947		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

UPPER MIDWEST REGION

MN: 612-607-1700 WI: 920-469-2436

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Page 39 of 41



PG

40180602

Company Name: **Kapra Associates, Inc**
 Branch/Location: **Milwaukee**
 Project Contact: **Travis Peterson**
 Phone: **414-751-7279**
 Project Number: **18-0231.01**
 Project Name: **Cristo Reg**
 Project State: **WI**
 Sampled By (Print): **Patricia Hermann**
 Sampled By (Sign): *Patricia Hermann*

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y/N	Pick Letter	Analyses Requested	Matrix Codes			
			VOCs	PCRA Metals	PAHs	Dry Weight
✓	F	VOCs	X	X	X	X
✓	A	PCRA Metals	X	X	X	X
✓	A	PAHs	X	X	X	X
✓	A	Dry Weight	X	X	X	X

Quote #:
 Mail To Contact:
 Mail To Company: *SAUTE*
 Mail To Address:
 Invoice To Contact:
 Invoice To Company:
 Invoice To Address:
 Invoice To Phone:

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	GP-13 (1-3)	12/5/10	9:45	SOIL
002	GP-14 (1-3)		10:00	
003	GP-14 (6-8)		10:15	
004	GP-15 (1-3)		10:28	
005	GP-16 (1-3)		10:45	
006	GP-16 (6-8)		10:55	
007	GP-17 (1-3)		11:10	
008	Trip Blank			

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed: _____

Transmit Prelim Rush Results by (complete what you want):
 Email #1: _____
 Email #2: _____
 Telephone: _____
 Fax: _____

Samples on HOLD are subject to special pricing and release of liability

Relinquished By: *Travis Peterson* Date/Time: 12/6/18 11:05
 Relinquished By: *Patricia Hermann* Date/Time: 12/6/18 11:35
 Relinquished By: *Patricia Hermann* Date/Time: 12/6/18 13:40

Received By: *May Janni* Date/Time: 12/6/18 11:05
 Received By: *Patricia Hermann* Date/Time: 12/6/18 11:35
 Received By: *Patricia Hermann* Date/Time: 12/6/18 13:40

PACE Project No. **40180602**
 Receipt Temp = **20** °C
 Sample Receipt pH **OK / Adjusted**
 Cooler Custody Seal Present / Not Present **Intact / Not Intact**

Section 11 - Certification Statements

See attached form.

Environmental Consultant Information

Professional Engineer Information

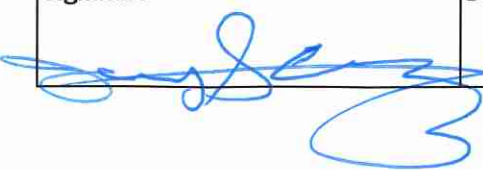

Section 11 - Certification Statements

All exemption requests submitted to manage contaminated soil or other solid waste as an interim action or remedial action under Wis. Admin. Code §§ NR 708 or NR 722 must be prepared by, or prepared under, the supervision of a professional engineer. The professional engineer who prepared or supervised this exemption request should complete the following section.

Environmental Consultant Information	
Firm Name Kapur & Associates, Inc.	
Mailing Address 7711 North Port Washington Road	State Wisconsin
City Milwaukee	ZIP Code 53217

Wis. Admin. Code § NR 712, entitled “Personnel Qualifications for Conducting Environmental Response Actions,” establishes minimum standards for experience and professional qualifications for persons who perform certain environmental services. This law applies to work conducted under Wis. Admin. Code § NR 718, unless specifically exempted.

Note: The following certification must be attached to confirm the Wis. Admin. Code § NR 718 exemption request was prepared by or under the supervision of a professional engineer under Wis. Admin. Code § NR 712.07.

Professional Engineer Information			
Last Name Schwartz	First Name Jeremy		
Mailing Address 7711 North Port Washington Road	City Milwaukee	State WI	ZIP Code 53217
Phone No. (include area code) 414-751-7212	Email jschwartz@kapurinc.com		
<p>“I hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.</p> <p>It is my professional opinion that the proposed soil management activity will not cause environmental pollution nor cause any other significant risk to public health, safety or welfare.”</p>			
Signature 	Date 3-4-18	Wisconsin Registration No. E 40478	


Section 12 – Signatures

See attached form.

Owner(s) of Property Where Material is Placed

Section 12 - Signatures

Each receiving site or facility property owner's signature must be included as part of this request. Attach additional copies of the signature page, if needed. If one of the owners of the receiving site or facility is acting on behalf of other owners, a power of attorney form or statement must be signed and attached to this agreement clearly granting the agent the authority to accept the contaminated soils on behalf of all other owners of the receiving site or facility whose signatures are not included on this agreement.

Owner(s) of Property Where Material is Placed		
Print Name	Signature	Date
Andrew Stith		3/4/19
Print Name	Signature	Date
Print Name	Signature	Date
Print Name	Signature	Date

I understand that by signing this application I certify that I will follow the conditions and limitations required by law and specified in the exemption issued to me as owner of the site or facility that will receive the contaminated soil. Further, I certify that the contaminated soil proposed to be managed under this exemption will be at a property that meets the definition of "site" or "facility" under Wis. Stats. Chapter 292 and Wis. Admin. Code Chapters §§ NR 700 – 754, and I understand that the material must be managed any time in the future as a solid waste with the department's approval. I understand that this exemption will be tracked in the Wisconsin Remediation and Redevelopment Database, and if required, will include maintenance and inspection by me of any continuing obligations, such as maintaining an engineering control or barrier over the contaminated material, and will also be subject to inspection by the department. I understand that the conditions on my site or facility may be subject to Wis. Stats. Chapter 709, Disclosures by Owners of Real Estate. I believe that the legal description for all properties where material will be managed is included with this submittal.