


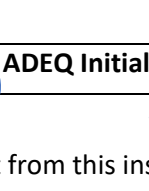

Douglas A. Ducey
Governor

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY



Misael Cabrera
Director

Air Quality Field Report

Company Name: Kirkland Mining Company RP: 86532	Inspection Report No.: 290045
Place Name: Kirkland Mining Company Lower Quarry Place ID No.: 162459	Inspector(s): Rob Verville
County: Yavapai	Arrival Date and Time: 9/29/2017 8:30 AM
Physical Location: 7825 S Iron Spring Rd., Skull Valley, AZ 86338	Reason for Inspection: <input type="checkbox"/> Complaint Complaint No.: <input checked="" type="checkbox"/> Routine Inspection (demonstration) <input type="checkbox"/> Follow-Up Original Inspection Report No.:
Mailing Address: 3737 Garden Ln., San Diego, CA 92106	
Coordinates (for new locations): Latitude: Deg.: Min.: Sec.: Longitude: Deg.: Min.: Sec.:	
Permit No.: 68023 ATO: 121348 Permit Expiration Date: 4/24/2022	Was Inspection Announced? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ADEQ is observing a demonstration
Onsite Contact Person(s)/Title(s): Areta Zouvas, President Al Birch, Consultant	Operational Status: Operating
	Type of Source: Class II, general permit for C&S
Other Names for Site/Facility:	Last Inspection: 
Inspection Report Issued: Via email at facility	Facility Initial:  ADEQ Initial: 
Results of Inspection: <input type="checkbox"/> No deficiencies were noted during the course of the inspection. No ADEQ action will result from this inspection. <input type="checkbox"/> Potential deficiencies were noted during the course of the inspection. Additional correspondence regarding this inspection may be forthcoming.	
Comments: <p>The Kirkland Mining Company (KMC) is proposing to operate an open pit pozzolan mine near the Kirkland / Skull Valley area. The facility is currently in the process of obtaining approval from the Bureau of Land Management (BLM) pending the completion of an environmental assessment before it can begin active mining operations. The facility has however been granted approval on an exploratory basis which will allow them to conduct a pilot demonstration of the mining and on-site crushing and screening of the extracted material. The processed material will be transported off-site for additional testing.</p> <p>During the on-site demonstration, the facility processed approximately 200 tons of material per hour through a combined crushing and screening unit. KMC President, Areta Zoufas, stated that the pilot demonstration began on Wednesday, September 27, 2017 and continued Thursday, September 28, 2017 processing approximately 300 and 250 tons respectively.</p> <p>The quarry itself is located on property owned by the BLM. KMC is the claim owner and quarry operator. Al Birch, a Consultant for KMC, stated that KMC has an association placer mining claim on the property.</p>	

Mr. Birch stated, the source has two water trucks. The ADEQ inspector observed one water truck wetting during the demonstration. The other water truck was not in operation at the time of the inspection. The source has additional rental equipment and contractor equipment at the site for mining, testing and demonstration under the exploration permit.

On September 22, 2017, KMC obtained a Class II, air quality general permit for crushing & screening (C&S) operations through the myDEQ portal. The Authorization To Operate (ATO) lists two pieces of C&S permitted equipment: KPI-JCI Crusher 500 tons per hour, Model: FT4250CC, Date of Manufacture 9/19/2017, S/N: 417164 KPI-JCI Screen 500 tons per hour, Model: FT4250CC, Date of Manufacture 9/19/2017, S/N: 417164 During the demonstration, the ADEQ inspector observed the C&S unit is a combined unit on tracks with its own power source. The C&S unit is a rental.

Haul roads and equipment operating areas had evidence of wetting. An area on the upper haul road with an observation area overlooking the C&S unit had an accumulation of loose material with equipment and vehicle tracks pressed into it. During the demonstration, a light breeze blew and the ADEQ inspector did not observe any visible emissions from the haul roads or operating areas.

The first run of the demonstration was crushing and screening the material to a 1" minus, then the screens were changed and a 2" minus material was processed. Between the runs, a motor grader smoothed the path between the stockpile and the C&S plant. No visible emission were created by the grading.

Mr. Birch was routinely testing the material for moisture, Mr. Birch stated the material being processed is maintaining approximately 4% moisture. Mr. Birch stated the C&S plant is operating at approximately 250 tons per hour.

Visible emissions were present when the front-end loader dumped into the feeder. The feeder is a compartment that contains material as it is supplied to the crusher. Feeders are not included in the listed pieces of equipment in Permit Condition - Attachment "C" Part I.A.1.

Permit Condition – Attachment "C" Part I.C.1.b(2) - The Permittee shall not allow to be discharged into the atmosphere from any grinding mill, screening operation, bucket elevator, transfer point on belt conveyors, bagging operation, storage bin, enclosed truck or railcar loading stations or any other affected facility, which commenced construction, modification, or reconstruction on or after April 22, 2008, any fugitive emissions (including emissions escaping capture systems) which exhibit visible emissions greater than 7 percent opacity.

Permit Condition – Attachment "B" Part VII.B.1 - Opacity of emissions from any fugitive dust non-point source shall not be greater than 40% measured in accordance with the Arizona Testing Manual, Reference Method 9. During the demonstration the ADEQ inspector did not observe any non-point sources with opacity \geq 40% opacity.

DOCSII digital opacity observations were collected during the demonstration while the C&S plant was operating. The DOCS observation results have been completed and are attached to this report.

Recommendation(s):

- The general permit requires the source to have someone on-site or on-call certified in EPA Method 9 (smoke school). It may be best to have someone Method 9 onsite when mining and processing is occurring to be able quickly identify if a visible emission or opacity issue needs to be addressed.
- Installing a water mister or fogger system at the feeder may provide additional knockdown of any visible emissions created when the front-end loader is dumping into the feeder.

Attachments:

Notice of Inspection Rights, Photograph Log, DOCS results

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

NOTICE OF INSPECTION RIGHTS

FACILITY INFORMATION	ADEQ INFORMATION
Facility Name (Customer): Kirkland Mining Company Lower Quarry	Date of Inspection: 9/29/2017 8:30 AM
Facility Location (Place): 7825 S Iron Spring Rd., Skull Valley, AZ 86338	County: Yavapai
	Inspector: Rob Verville
Mailing Address: 3737 Garden Ln., San Diego, CA 92106	Telephone: (602) 771-4111
	Accompanied by:
Responsible Party: Kirkland Mining Company RP: 86532	ADEQ Follow-up Contact: Jamie Abbott Air Compliance Unit
On-Site Representative: Areta Zouvas	
Title: President	
Telephone:	Title: Manager
Email:	Telephone: (602) 771-4609

The ADEQ representative(s) identified above were present at the above address on the above listed date and time. Upon entry to the premises, the ADEQ representative(s) met with me, presented photo identification indicating that they are ADEQ employees and explained:

☐ **That the purpose of the inspection is to determine:**

- ☐ Compliance with Title 49 of the Arizona Revised Statutes, Title 18 of the Arizona Administrative Code* and/or:

Arizona Revised Statutes: Title 49, Chapter 3

Arizona Administrative Code: Title 18, Chapter 2

Permit/Agreement Number: 68023

- ☐ Qualification for a license issued pursuant to:

Arizona Revised Statutes: Title 49, Chapter 3

Arizona Administrative Code: Title 18, Chapter 2

- ☐ That this inspection is conducted pursuant to the authority granted in Arizona Revised Statutes § 49-104(B)(8) and/or:

Arizona Revised Statutes: § 41-1009

Arizona Administrative Code: Title 18, Chapter 2

Permit/Agreement Number: 68023

☐ That the state shall not be barred by the statutes of limitations of actions, according to A.R.S. § 12-510, except as provided in A.R.S. § 12-529 concerning certain claims based on navigability of watercourses. According to 28 U.S.C. § 2462, the U.S. government must commence an action within 5 years after the date the claim first accrued.

- ☐ Possible applicability of Small Business Bill of Rights pursuant to Arizona Revised Statutes § 41-1001(21)

That the fee for this inspection is: No fee for the inspection

*The Arizona Revised Statutes (A.R.S.) can be found on the internet: www.azleg.state.az.us/ArizonaRevisedStatutes.asp while the Arizona Administrative Code (A.A.C.) can be found at www.azsosaz.gov/public_services/Table_of_Contents.htm

While I have the right to refuse to sign this form, the ADEQ representatives may still proceed with the inspection

- ☐ I have read this notice and discussed any questions or concerns with the ADEQ representatives and I have received the Small Business Bill of Rights (ADEQ at site to watch a demonstration)

9/29/2017

Signature of Regulated Person or Authorized On-Site Representative

- ☐ The regulated person or authorized on-site representative refused to sign.

Name of Regulated Person or Authorized On-Site Representative

Title

- ☐ The regulated person or an authorized on-site representative was not present at the facility.

9/29/2017

Signature of ADEQ Representative

INSPECTION RIGHTS

- ☐ I understand that I can accompany the ADEQ representative(s) on the premises, except during confidential interviews.
- ☐ I understand that I have right to, on request:
- Copies of any original documents taken during the inspection, and that ADEQ will provide copies of those documents at ADEQ's expense;
 - A split of any samples taken during the inspection, if the split of the samples would not prohibit an analysis from being conducted or render an analysis inconclusive;
 - Copies of any analysis performed on samples taken during the inspection and that ADEQ would provide copies of this analysis at ADEQ's expense;
 - Copies of any documents to be relied on to determine compliance with licensure or regulatory requirements if the agency is otherwise permitted by law to do so.
- ☐ I also understand that:
- Each person who is interviewed by an ADEQ inspector during the inspection must be informed that:
 - participation in an interview is voluntary, unless legally compelled to participate;
 - they have the right to have an attorney or other experts in their field present during the interview to represent or advise the regulated person;
 - the ADEQ inspector may not take any adverse action or treat less favorably or draw any inference as a result of the regulated person's decision to be represented by an attorney or advised by any other experts in their field;
 - statements made by the person may be included in the inspection report; and
 - they have the right to 24 hours to review and revise any written witness statement drafted by the ADEQ inspector on which the ADEQ inspector requests that person's signature.
 - If the information and documents provided to the ADEQ inspector become a public record, trade secrets and proprietary and confidential information may be redacted, unless the information and documents are not confidential pursuant to statute.
 - Each person interviewed during the inspection must be informed that statements made by the person may be included in the inspection report;
 - Each person whose conversation is tape recorded during the inspection must be informed that the conversation is being tape recorded;
 - If an administrative order is issued or a permit decision is made based on the results of the inspection, I have the right to appeal that administrative order or permit decision. I understand that my administrative hearing rights are set forth in Arizona Revised Statutes § 41-1092 et seq. and my rights relating to an appeal of a final agency decision are found in Arizona Revised Statutes § 12-901 et seq;
 - If I have any questions or concerns about this inspection, I may contact the person listed as the ADEQ Follow-up Contact on the front of this form; ADEQ's Ombudsman at (602) 771-4322 (toll free inside Arizona at (800) 234-5677, extension, 771-4322); or the Arizona Ombudsman-Citizens' Aid office at (602) 277-7292 (toll free at (800) 872-2879);

If I have any questions concerning my rights to appeal an administrative order or permit decision, I may contact ADEQ's Office of Administrative Counsel at (602) 771-2212 (toll free inside Arizona at (800) 234-5677, extension 771-2212).

41-1001.01. Regulatory bill of rights; small businesses

A. To ensure fair and open regulation by state agencies, a person:

1. Is eligible for reimbursement of fees and other expenses if the person prevails by adjudication on the merits against an agency in a court proceeding regarding an agency decision as provided in section 12-348.
2. Is eligible for reimbursement of the person's costs and fees if the person prevails against any agency in an administrative hearing as provided in section 41-1007.
3. Is entitled to have an agency not charge the person a fee unless the fee for the specific activity is expressly authorized as provided in section 41-1008.
4. Is entitled to receive the information and notice regarding inspections and audits prescribed in section 41-1009.
5. May review the full text or summary of all rulemaking activity, the summary of substantive policy statements and the full text of executive orders in the register as provided in article 2 of this chapter.
6. May participate in the rulemaking process as provided in articles 3, 4, 4.1 and 5 of this chapter, including:
 - (a) Providing written comments or testimony on proposed rules to an agency as provided in section 41-1023 and having the agency adequately address those comments as provided in section 41-1052, subsection D, including comments or testimony concerning the information contained in the economic, small business and consumer impact statement.
 - (b) Filing an early review petition with the governor's regulatory review council as provided in article 5 of this chapter.
 - (c) Providing written comments or testimony on rules to the governor's regulatory review council during the mandatory sixty-day comment period as provided in article 5 of this chapter.
7. Is entitled to have an agency not base a licensing decision in whole or in part on licensing conditions or requirements that are not specifically authorized by statute, rule or state tribal gaming compact as provided in section 41-1030, subsection B.
8. Is entitled to have an agency not make a rule under a specific grant of rulemaking authority that exceeds the subject matter areas listed in the specific statute or not make a rule under a general grant of rulemaking authority to supplement a more specific grant of rulemaking authority as provided in section 41-1030, subsection C.
9. May allege that an existing agency practice or substantive policy statement constitutes a rule and have that agency practice or substantive policy statement declared void because the practice or substantive policy statement constitutes a rule as provided in section 41-1033.
10. May file a complaint with the administrative rules oversight committee concerning:
 - (a) A rule's, practice's or substantive policy statement's lack of conformity with statute or legislative intent as provided in section 41-1047.
 - (b) An existing statute, rule, practice alleged to constitute a rule or substantive policy statement that is alleged to be duplicative or onerous as provided in section 41-1048.
11. May have the person's administrative hearing on contested cases and appealable agency actions heard by an independent administrative law judge as provided in articles 6 and 10 of this chapter.
12. May have administrative hearings governed by uniform administrative appeal procedures as provided in articles 6 and 10 of this chapter and may appeal a final administrative decision by filing a notice of appeal pursuant to title 12, chapter 7, article 6.
13. May have an agency approve or deny the person's license application within a predetermined period of time as provided in article 7.1 of this chapter.
14. Is entitled to receive written notice from an agency on denial of a license application:
 - (a) That justifies the denial with references to the statutes or rules on which the denial is based as provided in section 41-1076.
 - (b) That explains the applicant's right to appeal the denial as provided in section 41-1076.
15. Is entitled to receive information regarding the license application process before or at the time the person obtains an application for a license as provided in sections 41-1001.02 and 41-1079.
16. May receive public notice and participate in the adoption or amendment of agreements to delegate agency functions, powers or duties to political subdivisions as provided in section 41-1026.01 and article 8 of this chapter.
17. May inspect all rules and substantive policy statements of an agency, including a directory of documents, in the office of the agency director as provided in section 41-1091.
18. May file a complaint with the office of the ombudsman-citizens aide to investigate administrative acts of agencies as provided in chapter 8, article 5 of this title.
19. Unless specifically authorized by statute, may expect state agencies to avoid duplication of other laws that do not enhance regulatory clarity and to avoid dual permitting to the extent practicable as prescribed in section 41-1002.
20. May have the person's administrative hearing on contested cases pursuant to title 23, chapter 2 or 4 heard by an independent administrative law judge as prescribed by title 23, chapter 2 or 4.

B. The enumeration of the rights listed in subsection A of this section does not grant any additional rights that are not prescribed in the sections referenced in subsection A of this section.

C. Each state agency that conducts audits, inspections or other regulatory enforcement actions pursuant to section 41-1009 shall create and clearly post on the agency's website a small business bill of rights. The agency shall create the small business bill of rights by selecting the applicable rights prescribed in this section and section 41-1009 and any other agency-specific statutes and rules. At the request of an authorized on-site representative of the regulated small business, the agency shall provide a written document of the small business bill of rights. In addition to the rights listed in this section and section 41-1009, the agency notice of the small business bill of rights shall include the process by which a small business may file a complaint with the agency employees who are designated to assist members of the public or regulated community pursuant to section 41-1006. The notice must provide the contact information of the agency's designated employees. The agency notice must also state that if the regulated person has already made a reasonable effort with the agency to resolve the problem and still has not been successful, the regulated person may contact the office of ombudsman-citizens aide.

Air Quality Field Inspection Photograph Log


Site Location: Kirkland Mining Company Lower Quarry - 7825 S Iron Spring Rd., Skull Valley, AZ 86338		Photographer: Rob Verville	Camera: Hp Elite x2
Weather: Clear with breeze			
Photo No. 1	Date: 9/29/2017		
Direction Photo Taken: West			
Photo Description: Crusher and screening combined unit. Four test piles in background to left of machine. 2 piles are 1" minus 2 piles are 2" minus. Work pad and haul road wetted.			

Photo No. 2	Date: 9/29/2017	
Direction Photo Taken: West		
Photo Description: Area wetted. Previous days test piles visible in background.		


Photo No. 3	Date: 9/29/2017	
Direction Photo Taken: Down		
Photo Description: Material on hauls road. Evidence of previous wetting. The material is loose, but the ADEQ inspector did not observe visible emissions from the light breeze. Some visible emission were created when passenger vehicles drove into the area. The visible emission from the passenger vehicle traffic was ephemeral.		


Photo No. 4	Date: 9/29/2017	
Direction Photo Taken: North		
Photo Description: Photo taken as demonstration started. The front-end loader dumps into the feeder for the C&S plant. Visible emissions are present. Evidence of wetting on ground. One area has pooled water.		

Photo No. 5	Date: 9/29/2017	
Direction Photo Taken: North		
Photo Description: Front-end loader dumping into C&S plant feeder. Visible emissions created when front-end loader dumping into feeder.		

Photo No. 6	Date: 9/29/2017
Direction Photo Taken: North	
Photo Description: Front end-loader dumping into C&S plant.	





Photo No. 7	Date: 9/29/2017	
Direction Photo Taken: Northwest		
Photo Description: Motor grader operating. No visible emissions created when operating.		


Photo No. 8	Date: 9/29/2017	
Direction Photo Taken: North		
Photo Description: Material being produced during the demonstration.		


Photo No. 9	Date: 9/29/2017	
Direction Photo Taken: West		
Photo Description: Store pile of 1" minus material produced earlier in the week.		


Photo No. 10	Date: 9/29/2017	
Direction Photo Taken: West		
Photo Description: Store pile of 2" minus material produced earlier in the week.		


Photo No. 11	Date: 9/29/2017	
Direction Photo Taken: Northwest		
Photo Description: Frame on C&S plant below the feeder. An accumulation of material is built up on the frame.		

Photo No. 12	Date: 9/29/2017
Direction Photo Taken: Northwest	
Photo Description: Frame on C&S plant below the feeder. An accumulation of material is built up on the frame.	


A close-up photograph of a yellow industrial machine, likely a conveyor system component. The machine features a large, circular, bolted flange or pulley at the top. Below this, there is a yellow safety cage or guard structure. A black cable or hose runs along the side of the machine. In the bottom left corner, there is a red and white warning label that reads "DANGER" and includes safety instructions. The machine is situated on a wooden deck or platform.


Photo No. 13	Date: 9/29/2017	
Direction Photo Taken: North		
Photo Description: Front-end loader dumping into feeder of C&S plant.		


Photo No. 14	Date: 9/29/2017	
Direction Photo Taken: Down		
Photo Description: Evidence of crust on soil in areas adjacent to C&S plant. The ADEQ inspector used his foot to break the crust to verify its integrity.		


Photo No. 15	Date: 9/29/2017	
Direction Photo Taken: West		
Photo Description: After several hours the wetting was still evident.		

Photo No. 16	Date: 9/29/2017	
Direction Photo Taken: Northwest		
Photo Description: Material produced during demonstration. Foreground store pile 1" minus. Background store pile 2" minus. Wetting from water sprays visible on pile.		

Photo No. 17	Date: 9/29/2017	
Direction Photo Taken: East		
Photo Description: Haul road leading up to upper observation area.		


Photo No. 18	Date: 9/29/2017	
Direction Photo Taken: Northwest		
Photo Description: The material on the ground retains moisture. Equipment tracks are evident.		

Photo No. 19	Date: 9/29/2017	
Direction Photo Taken: West		
Photo Description: Overall C&S plant prior to demonstration starting. The work area is wetted. Piles in background processed prior to the demonstration. Photo taken with Samsung Cellphone camera.		


Photo No. 20	Date: 9/29/2017	
Direction Photo Taken: North		
Photo Description: The following pictures are associated with the DOCS observation. The pictures were randomly culled from the DOCS pictures. See DOCS results for 6 minute opacity readings. Plant is operating.		


Photo No. 21	Date: 9/29/2017	
Direction Photo Taken: North		
Photo Description: The following pictures are associated with the DOCS observation. The pictures were randomly culled from the DOCS pictures. Plant is operating.		


Photo No. 22	Date: 9/29/2017	
Direction Photo Taken: Northwest		
Photo Description: The following pictures are associated with the DOCS observation. The pictures were randomly culled from the DOCS pictures. Plant is operating.		


Photo No. 23	Date: 9/29/2017	
Direction Photo Taken: Northwest		
Photo Description: The following pictures are associated with the DOCS observation. The pictures were randomly culled from the DOCS pictures. Plant is operating.		


Photo No. 24	Date: 9/29/2017	
Direction Photo Taken: Northwest		
Photo Description: The following pictures are associated with the DOCS observation. The pictures were randomly culled from the DOCS pictures. Plant is operating.		


Photo No. 25	Date: 9/29/2017	
Direction Photo Taken: Northwest		
Photo Description: The following pictures are associated with the DOCS observation. The pictures were randomly culled from the DOCS pictures. Plant is operating.		


Photo No. 26	Date: 9/29/2017	
Direction Photo Taken: North		
Photo Description: The following pictures are associated with the DOCS observation. The pictures were randomly culled from the DOCS pictures. Plant is operating.		


Photo No. 27	Date: 9/29/2017	
Direction Photo Taken: North		
Photo Description: The following pictures are associated with the DOCS observation. The pictures were randomly culled from the DOCS pictures. Plant is operating.		


Photo No. 28	Date: 9/29/2017	
Direction Photo Taken: North		
Photo Description: The following pictures are associated with the DOCS observation. The pictures were randomly culled from the DOCS pictures. Plant is operating.		


Photo No. 29	Date: 9/29/2017	
Direction Photo Taken: North		
Photo Description: The following pictures are associated with the DOCS observation. The pictures were randomly culled from the DOCS pictures. Plant is operating.		

Photo No. 30	Date: 9/29/2017	
Direction Photo Taken: North		
Photo Description: The following pictures are associated with the DOCS observation. The pictures were randomly culled from the DOCS pictures. Plant is operating.		


Photo No. 31	Date: 9/29/2017	
Direction Photo Taken: North		
Photo Description: The following pictures are associated with the DOCS observation. The pictures were randomly culled from the DOCS pictures. Plant is operating.		


Photo No. 32	Date: 9/29/2017	
Direction Photo Taken: North		
Photo Description: The following pictures are associated with the DOCS observation. The pictures were randomly culled from the DOCS pictures. Plant is operating.		


Photo No. 33	Date: 9/29/2017	
Direction Photo Taken: North		
Photo Description: The following pictures are associated with the DOCS observation. The pictures were randomly culled from the DOCS pictures. Plant is operating.		


Photo No. 34	Date: 9/29/2017	
Direction Photo Taken: North		
Photo Description: The following pictures are associated with the DOCS observation. The pictures were randomly culled from the DOCS pictures. Plant is operating.		


Photo No. 35	Date: 9/29/2017	
Direction Photo Taken: North		
Photo Description: The following pictures are associated with the DOCS observation. The pictures were randomly culled from the DOCS pictures. Plant is operating.		

Photo No. 36	Date: 9/29/2017	
Direction Photo Taken: North		
Photo Description: The following pictures are associated with the DOCS observation. The pictures were randomly culled from the DOCS pictures. Plant is operating.		


Photo No. 37	Date: 9/29/2017	
Direction Photo Taken: North		
Photo Description: The following pictures are associated with the DOCS observation. The pictures were randomly culled from the DOCS pictures. Plant is operating.		

Photo No. 38	Date: 9/29/2017	
Direction Photo Taken: North		
Photo Description: The following pictures are associated with the DOCS observation. The pictures were randomly culled from the DOCS pictures. Plant is operating.		


Photo No. 39	Date: 9/29/2017	
Direction Photo Taken: North		
Photo Description: The following pictures are associated with the DOCS observation. The pictures were randomly culled from the DOCS pictures. Plant is operating.		

Photo No. 40	Date: 9/29/2017	
Direction Photo Taken: North		
Photo Description: The following pictures are associated with the DOCS observation. The pictures were randomly culled from the DOCS pictures. Plant is operating.		


Photo No. 41	Date: 9/29/2017	
Direction Photo Taken: Northwest		
Photo Description: The following pictures are associated with the DOCS observation. The pictures were randomly culled from the DOCS pictures. Plant is operating.		


Photo No. 42	Date: 9/29/2017	
Direction Photo Taken: Northwest		
Photo Description: The following pictures are associated with the DOCS observation. The pictures were randomly culled from the DOCS pictures. Plant is operating.		



Photo No. 43	Date: 9/29/2017	
Direction Photo Taken: North		
Photo Description: The following pictures are associated with the DOCS observation. The pictures were randomly culled from the DOCS pictures. Plant is operating.		

Photo No. 44	Date: 9/29/2017	
Direction Photo Taken: Northwest		
Photo Description: The following pictures are associated with the DOCS observation. The pictures were randomly culled from the DOCS pictures. Plant is operating.		

VISIBLE EMISSION OBSERVATION FORM

Method Used Method 9		
Equipment Owner Areta Zouvas		
Facility Name Kirkland Mining Company		
EO Street Address 3737 Garden Ln.		
EO City San Diego	EO State CA	EO Zip 92106

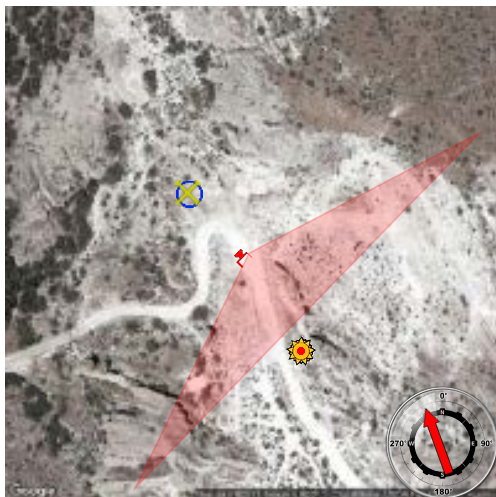
Process C&S plant	Unit N/A	Operating Mode operating
Control Equipment none	Operating Mode N/A	

Describe Emission Point loader feeding plant			
Height of Emiss. Pt. Start 38.09 End Same		Height of Emiss. Pt. Rel. to Observer Start 34.09 End Same	
Distance to Emiss. Pt. Start 85.03 End Same		Direction to Emiss. Pt. (Degrees) Start 314.36 End Same	

Vertical Angle to Obs. Pt. Start 19.06 End Same		Direction to Obs. Pt. Start 314.12 End Same	
Distance and Direction to Observation Point from Emission Point Start 1.94 / 344.39 End Same			

Describe Emissions Start lofting End Same	
Emission Color Start Dust End Same	Water Droplet Plume Attached: () Detached: () N/A: (X)

Describe Plume Background Start sky and mountains End Same			
Background Color Start Brown End Same		Sky Conditions Start Clear End Same	
Wind Speed Start 6 End Same		Wind Direction Start 160 End 180	
Ambient Temp. Start 70 End Same	Wet Bulb Temp. Start 36 End Same	RH Percent Start 29 End Same	



Longitude 112.41.19.358 W	Latitude 34.26.09.583 N	Declination
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Notes QC by SM16.

Form Number					Page Of				
Continued on VEO Form Number									
Observation Date 9/29/2017			Time Zone MST		Start Time 11:12:46		End Time 13:25:12		
Comments									
1	65	5	5	5					
2	90	5	10	10					
3	70	15	15	5	Avg. Opacity = 27.708 Opacity Standard = 40 %				
4	50	15	15	10					
5	80	5	10	10					
6	65	15	20	10					
7	70	40	10	20					
8	5	0	0	0					
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Observers Name (Print) Rob Verville	
Observers Signature <i>Rob Verville</i>	Date 9/30/2017
Organization AZDEQ	
Certified By AZDEQ Quality	Date 10/3/2017

Source

Name: Kirkland Mining Company
Address: 7825 S. Iron Springs Rd.
City: Skull Valley
State: AZ
Zip: 86338
Phone:
Local ID:

Regulatory

Permit ID: 68023
Condition:
Regulatory Reference: GP for C&S

Process

Process: C&S plant
Unit: N/A
Operating Mode: operating

Complaint

Name:
Address:
City:
State: NA
Zip:

Equipment

Name: Plant feeder

Type of Inspection

Type of Inspection: Surveillance

Sun

Altitude: 50
Azimuth: 152.4
Data Source: Calculated

Map Information

Map Type: USGSDRG
Map Width: 502

Analysis

Averaging Type: Override
Method: Method 9
Number of Images: 24
Rolling High Count: 24
Seconds Between Images: 15
Who Created: DOCS II
Creation Date: 9/22/2011

Analyst Name: Shawn Dolan
Affiliation: Virtual Technology LLC 05
Comments:

Image	Opacity	Coordinates	Date Taken	Camera Information															
 IMG_2178.JPG	90	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1874</td><td>2382</td><td>1960</td><td>2459</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1692</td><td>2223</td><td>1778</td><td>2300</td></tr></table>	T	L	B	R	1874	2382	1960	2459	T	L	B	R	1692	2223	1778	2300	<div>Date Taken 9/29/2017 11:13:46 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction S Wind Speed 6</div> <div>Temperature 70 Rel Humidity 29</div> <div>Wet Bulb Temp 36</div>
T	L	B	R																
1874	2382	1960	2459																
T	L	B	R																
1692	2223	1778	2300																
 IMG_2179.JPG	5	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1839</td><td>2445</td><td>1925</td><td>2522</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1654</td><td>2261</td><td>1740</td><td>2338</td></tr></table>	T	L	B	R	1839	2445	1925	2522	T	L	B	R	1654	2261	1740	2338	<div>Date Taken 9/29/2017 11:14:01 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction S Wind Speed 6</div> <div>Temperature 70 Rel Humidity 29</div> <div>Wet Bulb Temp 36</div>
T	L	B	R																
1839	2445	1925	2522																
T	L	B	R																
1654	2261	1740	2338																
 IMG_2180.JPG	10	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1850</td><td>2391</td><td>1936</td><td>2468</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1654</td><td>2213</td><td>1740</td><td>2290</td></tr></table>	T	L	B	R	1850	2391	1936	2468	T	L	B	R	1654	2213	1740	2290	<div>Date Taken 9/29/2017 11:14:16 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction S Wind Speed 6</div> <div>Temperature 70 Rel Humidity 29</div> <div>Wet Bulb Temp 36</div>
T	L	B	R																
1850	2391	1936	2468																
T	L	B	R																
1654	2213	1740	2290																
 IMG_2181.JPG	10	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1795</td><td>2371</td><td>1881</td><td>2448</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1652</td><td>2228</td><td>1729</td><td>2305</td></tr></table>	T	L	B	R	1795	2371	1881	2448	T	L	B	R	1652	2228	1729	2305	<div>Date Taken 9/29/2017 11:14:31 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction S Wind Speed 6</div> <div>Temperature 70 Rel Humidity 29</div> <div>Wet Bulb Temp 36</div>
T	L	B	R																
1795	2371	1881	2448																
T	L	B	R																
1652	2228	1729	2305																
 IMG_2182.JPG	70	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1851</td><td>2356</td><td>1937</td><td>2433</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1663</td><td>2226</td><td>1749</td><td>2303</td></tr></table>	T	L	B	R	1851	2356	1937	2433	T	L	B	R	1663	2226	1749	2303	<div>Date Taken 9/29/2017 11:14:46 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction S Wind Speed 6</div> <div>Temperature 70 Rel Humidity 29</div> <div>Wet Bulb Temp 36</div>
T	L	B	R																
1851	2356	1937	2433																
T	L	B	R																
1663	2226	1749	2303																
 IMG_2183.JPG	15	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1842</td><td>2320</td><td>1928</td><td>2397</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1577</td><td>2130</td><td>1662</td><td>2207</td></tr></table>	T	L	B	R	1842	2320	1928	2397	T	L	B	R	1577	2130	1662	2207	<div>Date Taken 9/29/2017 11:15:01 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction S Wind Speed 6</div> <div>Temperature 70 Rel Humidity 29</div> <div>Wet Bulb Temp 36</div>
T	L	B	R																
1842	2320	1928	2397																
T	L	B	R																
1577	2130	1662	2207																
 IMG_2184.JPG	15	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1851</td><td>2365</td><td>1937</td><td>2442</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1678</td><td>2228</td><td>1764</td><td>2305</td></tr></table>	T	L	B	R	1851	2365	1937	2442	T	L	B	R	1678	2228	1764	2305	<div>Date Taken 9/29/2017 11:15:16 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction S Wind Speed 6</div> <div>Temperature 70 Rel Humidity 29</div> <div>Wet Bulb Temp 36</div>
T	L	B	R																
1851	2365	1937	2442																
T	L	B	R																
1678	2228	1764	2305																
 IMG_2185.JPG	5	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1845</td><td>2381</td><td>1931</td><td>2458</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1683</td><td>2251</td><td>1769</td><td>2328</td></tr></table>	T	L	B	R	1845	2381	1931	2458	T	L	B	R	1683	2251	1769	2328	<div>Date Taken 9/29/2017 11:15:31 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction S Wind Speed 6</div> <div>Temperature 70 Rel Humidity 29</div> <div>Wet Bulb Temp 36</div>
T	L	B	R																
1845	2381	1931	2458																
T	L	B	R																
1683	2251	1769	2328																

Image	Opacity	Coordinates	Date Taken	Camera Information															
 IMG_2186.JPG	50	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1853</td><td>2423</td><td>1939</td><td>2500</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1655</td><td>2253</td><td>1741</td><td>2330</td></tr></table>	T	L	B	R	1853	2423	1939	2500	T	L	B	R	1655	2253	1741	2330	<div>Date Taken 9/29/2017 11:15:46 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction S Wind Speed 6</div> <div>Temperature 70 Rel Humidity 29</div> <div>Wet Bulb Temp 36</div>
T	L	B	R																
1853	2423	1939	2500																
T	L	B	R																
1655	2253	1741	2330																
 IMG_2187.JPG	15	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1844</td><td>2369</td><td>1930</td><td>2446</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1678</td><td>2225</td><td>1764</td><td>2302</td></tr></table>	T	L	B	R	1844	2369	1930	2446	T	L	B	R	1678	2225	1764	2302	<div>Date Taken 9/29/2017 11:16:01 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction S Wind Speed 6</div> <div>Temperature 70 Rel Humidity 29</div> <div>Wet Bulb Temp 36</div>
T	L	B	R																
1844	2369	1930	2446																
T	L	B	R																
1678	2225	1764	2302																
 IMG_2188.JPG	15	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1841</td><td>2368</td><td>1927</td><td>2445</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1654</td><td>2226</td><td>1740</td><td>2303</td></tr></table>	T	L	B	R	1841	2368	1927	2445	T	L	B	R	1654	2226	1740	2303	<div>Date Taken 9/29/2017 11:16:16 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction S Wind Speed 6</div> <div>Temperature 70 Rel Humidity 29</div> <div>Wet Bulb Temp 36</div>
T	L	B	R																
1841	2368	1927	2445																
T	L	B	R																
1654	2226	1740	2303																
 IMG_2189.JPG	10	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1828</td><td>2381</td><td>1914</td><td>2458</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1666</td><td>2236</td><td>1752</td><td>2313</td></tr></table>	T	L	B	R	1828	2381	1914	2458	T	L	B	R	1666	2236	1752	2313	<div>Date Taken 9/29/2017 11:16:31 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction S Wind Speed 6</div> <div>Temperature 70 Rel Humidity 29</div> <div>Wet Bulb Temp 36</div>
T	L	B	R																
1828	2381	1914	2458																
T	L	B	R																
1666	2236	1752	2313																
 IMG_2190.JPG	80	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1902</td><td>2486</td><td>1988</td><td>2563</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1770</td><td>2315</td><td>1856</td><td>2392</td></tr></table>	T	L	B	R	1902	2486	1988	2563	T	L	B	R	1770	2315	1856	2392	<div>Date Taken 9/29/2017 11:16:46 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction S Wind Speed 6</div> <div>Temperature 70 Rel Humidity 29</div> <div>Wet Bulb Temp 36</div>
T	L	B	R																
1902	2486	1988	2563																
T	L	B	R																
1770	2315	1856	2392																
 IMG_2191.JPG	5	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1867</td><td>2443</td><td>1953</td><td>2520</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1686</td><td>2308</td><td>1772</td><td>2385</td></tr></table>	T	L	B	R	1867	2443	1953	2520	T	L	B	R	1686	2308	1772	2385	<div>Date Taken 9/29/2017 11:17:01 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction S Wind Speed 6</div> <div>Temperature 70 Rel Humidity 29</div> <div>Wet Bulb Temp 36</div>
T	L	B	R																
1867	2443	1953	2520																
T	L	B	R																
1686	2308	1772	2385																
 IMG_2192.JPG	10	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1818</td><td>2376</td><td>1904</td><td>2453</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1681</td><td>2218</td><td>1767</td><td>2295</td></tr></table>	T	L	B	R	1818	2376	1904	2453	T	L	B	R	1681	2218	1767	2295	<div>Date Taken 9/29/2017 11:17:16 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction S Wind Speed 6</div> <div>Temperature 70 Rel Humidity 29</div> <div>Wet Bulb Temp 36</div>
T	L	B	R																
1818	2376	1904	2453																
T	L	B	R																
1681	2218	1767	2295																
 IMG_2193.JPG	10	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1839</td><td>2464</td><td>1925</td><td>2541</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1666</td><td>2274</td><td>1752</td><td>2351</td></tr></table>	T	L	B	R	1839	2464	1925	2541	T	L	B	R	1666	2274	1752	2351	<div>Date Taken 9/29/2017 11:17:31 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction S Wind Speed 6</div> <div>Temperature 70 Rel Humidity 29</div> <div>Wet Bulb Temp 36</div>
T	L	B	R																
1839	2464	1925	2541																
T	L	B	R																
1666	2274	1752	2351																

Image	Opacity	Coordinates	Date Taken	Camera Information															
 IMG_2194.JPG	65	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1864</td><td>2374</td><td>1950</td><td>2451</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1637</td><td>2210</td><td>1723</td><td>2287</td></tr></table>	T	L	B	R	1864	2374	1950	2451	T	L	B	R	1637	2210	1723	2287	<div>Date Taken 9/29/2017 11:17:46 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction S Wind Speed 6</div> <div>Temperature 70 Rel Humidity 29</div> <div>Wet Bulb Temp 36</div>
T	L	B	R																
1864	2374	1950	2451																
T	L	B	R																
1637	2210	1723	2287																
 IMG_2195.JPG	15	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1865</td><td>2406</td><td>1951</td><td>2483</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1672</td><td>2202</td><td>1758</td><td>2279</td></tr></table>	T	L	B	R	1865	2406	1951	2483	T	L	B	R	1672	2202	1758	2279	<div>Date Taken 9/29/2017 11:18:01 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction S Wind Speed 6</div> <div>Temperature 70 Rel Humidity 29</div> <div>Wet Bulb Temp 36</div>
T	L	B	R																
1865	2406	1951	2483																
T	L	B	R																
1672	2202	1758	2279																
 IMG_2196.JPG	20	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1861</td><td>2383</td><td>1947</td><td>2460</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1712</td><td>2203</td><td>1798</td><td>2280</td></tr></table>	T	L	B	R	1861	2383	1947	2460	T	L	B	R	1712	2203	1798	2280	<div>Date Taken 9/29/2017 11:18:16 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction S Wind Speed 6</div> <div>Temperature 70 Rel Humidity 29</div> <div>Wet Bulb Temp 36</div>
T	L	B	R																
1861	2383	1947	2460																
T	L	B	R																
1712	2203	1798	2280																
 IMG_2197.JPG	10	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1838</td><td>2386</td><td>1924</td><td>2463</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1669</td><td>2177</td><td>1755</td><td>2254</td></tr></table>	T	L	B	R	1838	2386	1924	2463	T	L	B	R	1669	2177	1755	2254	<div>Date Taken 9/29/2017 11:18:31 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction S Wind Speed 6</div> <div>Temperature 70 Rel Humidity 29</div> <div>Wet Bulb Temp 36</div>
T	L	B	R																
1838	2386	1924	2463																
T	L	B	R																
1669	2177	1755	2254																
 IMG_2198.JPG	70	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1857</td><td>2459</td><td>1943</td><td>2536</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1635</td><td>2241</td><td>1721</td><td>2318</td></tr></table>	T	L	B	R	1857	2459	1943	2536	T	L	B	R	1635	2241	1721	2318	<div>Date Taken 9/29/2017 11:18:46 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction S Wind Speed 6</div> <div>Temperature 70 Rel Humidity 29</div> <div>Wet Bulb Temp 36</div>
T	L	B	R																
1857	2459	1943	2536																
T	L	B	R																
1635	2241	1721	2318																
 IMG_2199.JPG	40	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1857</td><td>2459</td><td>1943</td><td>2536</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1655</td><td>2225</td><td>1741</td><td>2302</td></tr></table>	T	L	B	R	1857	2459	1943	2536	T	L	B	R	1655	2225	1741	2302	<div>Date Taken 9/29/2017 11:19:01 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction S Wind Speed 6</div> <div>Temperature 70 Rel Humidity 29</div> <div>Wet Bulb Temp 36</div>
T	L	B	R																
1857	2459	1943	2536																
T	L	B	R																
1655	2225	1741	2302																
 IMG_2200.JPG	10	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1851</td><td>2453</td><td>1937</td><td>2530</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1660</td><td>2256</td><td>1746</td><td>2333</td></tr></table>	T	L	B	R	1851	2453	1937	2530	T	L	B	R	1660	2256	1746	2333	<div>Date Taken 9/29/2017 11:19:16 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction S Wind Speed 6</div> <div>Temperature 70 Rel Humidity 29</div> <div>Wet Bulb Temp 36</div>
T	L	B	R																
1851	2453	1937	2530																
T	L	B	R																
1660	2256	1746	2333																
 IMG_2201.JPG	20	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1859</td><td>2356</td><td>1945</td><td>2433</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1643</td><td>2128</td><td>1729</td><td>2205</td></tr></table>	T	L	B	R	1859	2356	1945	2433	T	L	B	R	1643	2128	1729	2205	<div>Date Taken 9/29/2017 11:19:31 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction S Wind Speed 6</div> <div>Temperature 70 Rel Humidity 29</div> <div>Wet Bulb Temp 36</div>
T	L	B	R																
1859	2356	1945	2433																
T	L	B	R																
1643	2128	1729	2205																

VISIBLE EMISSION OBSERVATION FORM

Method Used Method 9		
Equipment Owner Areta Zouvas		
Facility Name Kirkland Mining Company		
EO Street Address 3737 Garden Ln.		
EO City San Diego	EO State CA	EO Zip 92106

Process C&S plant	Unit N/A	Operating Mode operating
Control Equipment none	Operating Mode N/A	

Describe Emission Point front-end loader feeding plant			
Height of Emiss. Pt. Start 74.19 End Same		Height of Emiss. Pt. Rel. to Observer Start 70.19 End Same	
Distance to Emiss. Pt. Start 120.78 End Same		Direction to Emiss. Pt. (Degrees) Start 318.07 End Same	

Vertical Angle to Obs. Pt. Start 25.74 End Same		Direction to Obs. Pt. Start 317.86 End Same	
Distance and Direction to Observation Point from Emission Point Start 1.2 / 341.11 End Same			

Describe Emissions Start lofting End Same	
Emission Color Start Dust End Same	Water Droplet Plume Attached: () Detached: () N/A: (X)

Describe Plume Background Start mountains and sky End Same	
Background Color Start Blue End Same	Sky Conditions Start Clear End Same
Wind Speed Start 5 End Same	Wind Direction Start 290 End 270
Ambient Temp. Start 80 End Same	Wet Bulb Temp. Start 41 End Same
RH Percent Start 23 End Same	



Longitude 112.41.18.998 W	Latitude 34.26.09.314 N	Declination
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Notes QC by SM16

Form Number		Page	Of
Continued on VEO Form Number			
Observation Date 9/29/2017	Time Zone MST	Start Time 09:48:16	End Time 09:58:39
Comments			
1	10	20	5
2	5	5	5
3	15	5	10
4	10	5	15
5	5	55	10
6	5	10	15
7	5	5	15
8	10	10	5
9			
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28			
29			
30			
31			
32			

Observers Name (Print) Rob Verville	
Observers Signature <i>Rob Verville</i>	Date 9/30/2017
Organization AZDEQ	
Certified By AZDEQ Quality	Date 10/3/2017

Source

Name: Kirkland Mining Company
Address: 7825 S. Iron Springs Rd.
City: Skull Valley
State: AZ
Zip: 86338
Phone:
Local ID:

Regulatory

Permit ID: 68023
Condition:
Regulatory Reference: GP for C&S

Process

Process: C&S plant
Unit: N/A
Operating Mode: operating

Complaint

Name:
Address:
City:
State: NA
Zip:

Equipment

Name: Plant feeder

Type of Inspection

Type of Inspection: Surveillance

Sun

Altitude: 38.7
Azimuth: 127.3
Data Source: Calculated

Map Information

Map Type: USGSDRG
Map Width: 502

Analysis

Averaging Type: Manual
Method: Method 9
Number of Images: 24

Analyst Name: Shawn Dolan

Affiliation: Virtual Technology LLC 05

Comments: Good blue sky above feeder, camera moves but blue sky allows single image processing. Kept emission box as constant as possible had to move background ROI to accomodate tractor and camera movement. Emission ROI could float to wind driven plume

Rolling High Count: 24
Seconds Between Images: 15
Who Created: DOCS II
Creation Date: 9/22/2011

Image	Opacity	Coordinates	Date Taken	Camera Information															
 IMG_2003.JPG	10	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1989</td><td>2352</td><td>2076</td><td>2429</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1914</td><td>3349</td><td>2000</td><td>3426</td></tr></table>	T	L	B	R	1989	2352	2076	2429	T	L	B	R	1914	3349	2000	3426	<div>Date Taken 9/29/2017 9:49:49 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
T	L	B	R																
1989	2352	2076	2429																
T	L	B	R																
1914	3349	2000	3426																
 IMG_2004.JPG	20	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1989</td><td>2341</td><td>2075</td><td>2418</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1896</td><td>3359</td><td>1982</td><td>3435</td></tr></table>	T	L	B	R	1989	2341	2075	2418	T	L	B	R	1896	3359	1982	3435	<div>Date Taken 9/29/2017 9:50:03 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
T	L	B	R																
1989	2341	2075	2418																
T	L	B	R																
1896	3359	1982	3435																
 IMG_2005.JPG	5	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1995</td><td>2377</td><td>2081</td><td>2454</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1942</td><td>3258</td><td>2029</td><td>3335</td></tr></table>	T	L	B	R	1995	2377	2081	2454	T	L	B	R	1942	3258	2029	3335	<div>Date Taken 9/29/2017 9:50:18 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
T	L	B	R																
1995	2377	2081	2454																
T	L	B	R																
1942	3258	2029	3335																
 IMG_2006.JPG	15	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1995</td><td>2361</td><td>2081</td><td>2438</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1868</td><td>3386</td><td>1954</td><td>3462</td></tr></table>	T	L	B	R	1995	2361	2081	2438	T	L	B	R	1868	3386	1954	3462	<div>Date Taken 9/29/2017 9:50:33 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
T	L	B	R																
1995	2361	2081	2438																
T	L	B	R																
1868	3386	1954	3462																
 IMG_2007.JPG	5	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1977</td><td>2387</td><td>2064</td><td>2464</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1890</td><td>3237</td><td>1977</td><td>3314</td></tr></table>	T	L	B	R	1977	2387	2064	2464	T	L	B	R	1890	3237	1977	3314	<div>Date Taken 9/29/2017 9:50:48 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
T	L	B	R																
1977	2387	2064	2464																
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 IMG_2008.JPG	5	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1960</td><td>2361</td><td>2046</td><td>2438</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1885</td><td>2945</td><td>1971</td><td>3022</td></tr></table>	T	L	B	R	1960	2361	2046	2438	T	L	B	R	1885	2945	1971	3022	<div>Date Taken 9/29/2017 9:51:03 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
T	L	B	R																
1960	2361	2046	2438																
T	L	B	R																
1885	2945	1971	3022																
 IMG_2009.JPG	5	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1983</td><td>2367</td><td>2069</td><td>2444</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1747</td><td>3550</td><td>1833</td><td>3627</td></tr></table>	T	L	B	R	1983	2367	2069	2444	T	L	B	R	1747	3550	1833	3627	<div>Date Taken 9/29/2017 9:51:18 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
T	L	B	R																
1983	2367	2069	2444																
T	L	B	R																
1747	3550	1833	3627																
 IMG_2010.JPG	5	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2001</td><td>2433</td><td>2086</td><td>2510</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1833</td><td>3534</td><td>1920</td><td>3610</td></tr></table>	T	L	B	R	2001	2433	2086	2510	T	L	B	R	1833	3534	1920	3610	<div>Date Taken 9/29/2017 9:51:33 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
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2001	2433	2086	2510																
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Image	Opacity	Coordinates	Date Taken	Camera Information															
 IMG_2011.JPG	15	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1994</td><td>2372</td><td>2081</td><td>2448</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1810</td><td>3606</td><td>1897</td><td>3683</td></tr></table>	T	L	B	R	1994	2372	2081	2448	T	L	B	R	1810	3606	1897	3683	<div>Date Taken 9/29/2017 9:51:48 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
T	L	B	R																
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 IMG_2012.JPG	5	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1983</td><td>2408</td><td>2069</td><td>2484</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1915</td><td>3330</td><td>2001</td><td>3406</td></tr></table>	T	L	B	R	1983	2408	2069	2484	T	L	B	R	1915	3330	2001	3406	<div>Date Taken 9/29/2017 9:52:03 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
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 IMG_2014.JPG	10	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2012</td><td>2367</td><td>2099</td><td>2444</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1966</td><td>3232</td><td>2052</td><td>3309</td></tr></table>	T	L	B	R	2012	2367	2099	2444	T	L	B	R	1966	3232	2052	3309	<div>Date Taken 9/29/2017 9:52:33 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
T	L	B	R																
2012	2367	2099	2444																
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 IMG_2015.JPG	10	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1983</td><td>2417</td><td>2070</td><td>2494</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1742</td><td>3821</td><td>1828</td><td>3897</td></tr></table>	T	L	B	R	1983	2417	2070	2494	T	L	B	R	1742	3821	1828	3897	<div>Date Taken 9/29/2017 9:52:48 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
T	L	B	R																
1983	2417	2070	2494																
T	L	B	R																
1742	3821	1828	3897																
 IMG_2016.JPG	5	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2006</td><td>2351</td><td>2092</td><td>2428</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1816</td><td>3590</td><td>1903</td><td>3667</td></tr></table>	T	L	B	R	2006	2351	2092	2428	T	L	B	R	1816	3590	1903	3667	<div>Date Taken 9/29/2017 9:53:03 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
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T	L	B	R																
1989	2398	2076	2475																
T	L	B	R																
1891	3498	1977	3575																
 IMG_2018.JPG	0	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1994</td><td>2331</td><td>2081</td><td>2408</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1966</td><td>3298</td><td>2053</td><td>3375</td></tr></table>	T	L	B	R	1994	2331	2081	2408	T	L	B	R	1966	3298	2053	3375	<div>Date Taken 9/29/2017 9:53:33 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
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Image	Opacity	Coordinates	Date Taken	Camera Information															
 IMG_2019.JPG	5	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1977</td><td>2377</td><td>2064</td><td>2454</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1891</td><td>3427</td><td>1978</td><td>3503</td></tr></table>	T	L	B	R	1977	2377	2064	2454	T	L	B	R	1891	3427	1978	3503	<div>Date Taken 9/29/2017 9:53:48 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
T	L	B	R																
1977	2377	2064	2454																
T	L	B	R																
1891	3427	1978	3503																
 IMG_2020.JPG	55	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2012</td><td>2787</td><td>2098</td><td>2864</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1891</td><td>1041</td><td>1978</td><td>1118</td></tr></table>	T	L	B	R	2012	2787	2098	2864	T	L	B	R	1891	1041	1978	1118	<div>Date Taken 9/29/2017 9:54:03 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
T	L	B	R																
2012	2787	2098	2864																
T	L	B	R																
1891	1041	1978	1118																
 IMG_2021.JPG	5	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1937</td><td>2366</td><td>2023</td><td>2443</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1873</td><td>3503</td><td>1960</td><td>3580</td></tr></table>	T	L	B	R	1937	2366	2023	2443	T	L	B	R	1873	3503	1960	3580	<div>Date Taken 9/29/2017 9:54:18 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
T	L	B	R																
1937	2366	2023	2443																
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1873	3503	1960	3580																
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T	L	B	R																
1977	2361	2063	2438																
T	L	B	R																
1949	3426	2036	3503																
 IMG_2023.JPG	5	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1954</td><td>2346</td><td>2041</td><td>2423</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1839</td><td>3498</td><td>1925</td><td>3575</td></tr></table>	T	L	B	R	1954	2346	2041	2423	T	L	B	R	1839	3498	1925	3575	<div>Date Taken 9/29/2017 9:54:48 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
T	L	B	R																
1954	2346	2041	2423																
T	L	B	R																
1839	3498	1925	3575																
 IMG_2024.JPG	10	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2000</td><td>2351</td><td>2087</td><td>2428</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1932</td><td>3339</td><td>2018</td><td>3416</td></tr></table>	T	L	B	R	2000	2351	2087	2428	T	L	B	R	1932	3339	2018	3416	<div>Date Taken 9/29/2017 9:55:03 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
T	L	B	R																
2000	2351	2087	2428																
T	L	B	R																
1932	3339	2018	3416																
 IMG_2025.JPG	15	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1994</td><td>2418</td><td>2081</td><td>2494</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1891</td><td>3504</td><td>1978</td><td>3581</td></tr></table>	T	L	B	R	1994	2418	2081	2494	T	L	B	R	1891	3504	1978	3581	<div>Date Taken 9/29/2017 9:55:18 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
T	L	B	R																
1994	2418	2081	2494																
T	L	B	R																
1891	3504	1978	3581																
 IMG_2026.JPG	5	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2000</td><td>2352</td><td>2086</td><td>2428</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1885</td><td>3447</td><td>1972</td><td>3523</td></tr></table>	T	L	B	R	2000	2352	2086	2428	T	L	B	R	1885	3447	1972	3523	<div>Date Taken 9/29/2017 9:55:33 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
T	L	B	R																
2000	2352	2086	2428																
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1885	3447	1972	3523																

VISIBLE EMISSION OBSERVATION FORM

Method Used Method 9		
Equipment Owner Areta Zouvas		
Facility Name Kirkland Mining Company		
EO Street Address 3737 Garden Ln.		
EO City San Diego	EO State CA	EO Zip 92106

Process C&S plant	Unit N/A	Operating Mode operating
Control Equipment water	Operating Mode operating	

Describe Emission Point Screening, transfer points & drop point			
Height of Emiss. Pt. Start 27.25 End Same		Height of Emiss. Pt. Rel. to Observer Start 23.25 End Same	
Distance to Emiss. Pt. Start 107.99 End Same		Direction to Emiss. Pt. (Degrees) Start 319.45 End Same	

Vertical Angle to Obs. Pt. Start 10.78 End Same		Direction to Obs. Pt. Start 318.04 End Same	
Distance and Direction to Observation Point from Emission Point Start 2.69 / 187.67 End Same			

Describe Emissions Start lofting End Same		Water Droplet Plume Attached: () Detached: () N/A: (X)	
Emission Color Start Dust End Same			

Describe Plume Background mountains and sky and equipment			
Background Color Start Blue End Same		Sky Conditions Start Clear End Same	
Wind Speed Start 5 End Same		Wind Direction Start 290 End 270	
Ambient Temp. Start 80 End Same	Wet Bulb Temp. Start 41 End Same	RH Percent Start 23 End Same	



Longitude 112.41.19.148 W	Latitude 34.26.09.402 N	Declination
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Notes QC by SM16.

Form Number		Page	Of
Continued on VEO Form Number			
Observation Date 9/29/2017	Time Zone MST	Start Time 10:09:23	End Time 10:18:00
		Comments	
1	0	0	0
2	0	0	0
3	5	5	5
4	0	10	5
5	0	0	0
6	0	0	0
7	0	0	0
8	0	0	0
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32			

Avg. Opacity = 1.458
Opacity Standard = 7 Percent

Observers Name (Print) Rob Verville	
Observers Signature <i>Rob Verville</i>	Date 9/30/2017
Organization AZDEQ	
Certified By AZDEQ Quality	Date 10/3/2017

Source

Name: Kirkland Mining Company
Address: 7825 S. Iron Springs Rd.
City: Skull Valley
State: AZ
Zip: 86338
Phone:
Local ID:

Regulatory

Permit ID: 68023
Condition:
Regulatory Reference: GP for C&S

Process

Process: C&S plant
Unit: N/A
Operating Mode: operating

Complaint

Name:
Address:
City:
State: NA
Zip:

Equipment

Name: Screen portion

Type of Inspection

Type of Inspection: Surveillance

Sun

Altitude: 42.1
Azimuth: 132.7
Data Source: Calculated

Map Information

Map Type: USGSDRG
Map Width: 502

Analysis

Averaging Type: Automatic
Method: Method 9
Number of Images: 24

Analyst Name: Shawn Dolan

Affiliation: Virtual Technology LLC 05

Comments: Camera move at 15 emission pt out of frame then at 19 observation point out of frame needed to move to right, need to reshoot these pictures zoom out to capture entire unit and stay low to keep sky in background. need a full 24 images like pic 1, 2, 3 in this observation

Rolling High Count: 24
Seconds Between Images: 15
Who Created: DOCS II
Creation Date: 9/22/2011









Image	Opacity	Coordinates	Date Taken	Camera Information																																	
 IMG_2073.JPG	0	<table><tr><td colspan="4">Foreground Coordinates</td></tr><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1091</td><td>509</td><td>1177</td><td>585</td></tr><tr><td colspan="4">Background Coordinates</td></tr><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1200</td><td>1000</td><td>1287</td><td>1077</td></tr></table>	Foreground Coordinates				T	L	B	R	1091	509	1177	585	Background Coordinates				T	L	B	R	1200	1000	1287	1077	<table><tr><td colspan="2">Date Taken 9/29/2017 10:10:16 AM</td></tr><tr><td colspan="2">Camera Mfg/Model Canon/Canon PowerShot SX60 HS</td></tr><tr><td>Wind Direction W</td><td>Wind Speed 5</td></tr><tr><td>Temperature 80</td><td>Rel Humidity 23</td></tr><tr><td colspan="2">Wet Bulb Temp 41</td></tr></table>	Date Taken 9/29/2017 10:10:16 AM		Camera Mfg/Model Canon/Canon PowerShot SX60 HS		Wind Direction W	Wind Speed 5	Temperature 80	Rel Humidity 23	Wet Bulb Temp 41	
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 IMG_2074.JPG	0	<table><tr><td colspan="4">Foreground Coordinates</td></tr><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1091</td><td>509</td><td>1177</td><td>585</td></tr><tr><td colspan="4">Background Coordinates</td></tr><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1200</td><td>1000</td><td>1287</td><td>1077</td></tr></table>	Foreground Coordinates				T	L	B	R	1091	509	1177	585	Background Coordinates				T	L	B	R	1200	1000	1287	1077	<table><tr><td colspan="2">Date Taken 9/29/2017 10:10:30 AM</td></tr><tr><td colspan="2">Camera Mfg/Model Canon/Canon PowerShot SX60 HS</td></tr><tr><td>Wind Direction W</td><td>Wind Speed 5</td></tr><tr><td>Temperature 80</td><td>Rel Humidity 23</td></tr><tr><td colspan="2">Wet Bulb Temp 41</td></tr></table>	Date Taken 9/29/2017 10:10:30 AM		Camera Mfg/Model Canon/Canon PowerShot SX60 HS		Wind Direction W	Wind Speed 5	Temperature 80	Rel Humidity 23	Wet Bulb Temp 41	
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 IMG_2075.JPG	0	<table><tr><td colspan="4">Foreground Coordinates</td></tr><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1091</td><td>509</td><td>1177</td><td>585</td></tr><tr><td colspan="4">Background Coordinates</td></tr><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1200</td><td>1000</td><td>1287</td><td>1077</td></tr></table>	Foreground Coordinates				T	L	B	R	1091	509	1177	585	Background Coordinates				T	L	B	R	1200	1000	1287	1077	<table><tr><td colspan="2">Date Taken 9/29/2017 10:10:45 AM</td></tr><tr><td colspan="2">Camera Mfg/Model Canon/Canon PowerShot SX60 HS</td></tr><tr><td>Wind Direction W</td><td>Wind Speed 5</td></tr><tr><td>Temperature 80</td><td>Rel Humidity 23</td></tr><tr><td colspan="2">Wet Bulb Temp 41</td></tr></table>	Date Taken 9/29/2017 10:10:45 AM		Camera Mfg/Model Canon/Canon PowerShot SX60 HS		Wind Direction W	Wind Speed 5	Temperature 80	Rel Humidity 23	Wet Bulb Temp 41	
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Image	Opacity	Coordinates	Date Taken	Camera Information															
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1114	196	1200	272																
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 IMG_2082.JPG	5	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1125</td><td>130</td><td>1211</td><td>206</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1200</td><td>1000</td><td>1287</td><td>1077</td></tr></table>	T	L	B	R	1125	130	1211	206	T	L	B	R	1200	1000	1287	1077	<div>Date Taken 9/29/2017 10:12:30 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
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 IMG_2083.JPG	5	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1114</td><td>140</td><td>1200</td><td>216</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1200</td><td>1000</td><td>1287</td><td>1077</td></tr></table>	T	L	B	R	1114	140	1200	216	T	L	B	R	1200	1000	1287	1077	<div>Date Taken 9/29/2017 10:12:45 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
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 IMG_2084.JPG	5	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1062</td><td>135</td><td>1148</td><td>211</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1200</td><td>1000</td><td>1287</td><td>1077</td></tr></table>	T	L	B	R	1062	135	1148	211	T	L	B	R	1200	1000	1287	1077	<div>Date Taken 9/29/2017 10:13:00 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
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1200	1000	1287	1077																
 IMG_2085.JPG	0	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1044</td><td>53</td><td>1130</td><td>129</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1200</td><td>1000</td><td>1287</td><td>1077</td></tr></table>	T	L	B	R	1044	53	1130	129	T	L	B	R	1200	1000	1287	1077	<div>Date Taken 9/29/2017 10:13:15 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
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 IMG_2086.JPG	10	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1039</td><td>94</td><td>1125</td><td>170</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1200</td><td>1000</td><td>1287</td><td>1077</td></tr></table>	T	L	B	R	1039	94	1125	170	T	L	B	R	1200	1000	1287	1077	<div>Date Taken 9/29/2017 10:13:30 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
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1200	1000	1287	1077																
 IMG_2087.JPG	5	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1039</td><td>206</td><td>1125</td><td>282</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1200</td><td>1000</td><td>1287</td><td>1077</td></tr></table>	T	L	B	R	1039	206	1125	282	T	L	B	R	1200	1000	1287	1077	<div>Date Taken 9/29/2017 10:13:45 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
T	L	B	R																
1039	206	1125	282																
T	L	B	R																
1200	1000	1287	1077																
 IMG_2088.JPG	0	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1003</td><td>68</td><td>1089</td><td>144</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1171</td><td>999</td><td>1287</td><td>1077</td></tr></table>	T	L	B	R	1003	68	1089	144	T	L	B	R	1171	999	1287	1077	<div>Date Taken 9/29/2017 10:14:00 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
T	L	B	R																
1003	68	1089	144																
T	L	B	R																
1171	999	1287	1077																

Image	Opacity	Coordinates	Date Taken	Camera Information															
 IMG_2089.JPG	0	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1050</td><td>135</td><td>1136</td><td>211</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1200</td><td>1000</td><td>1287</td><td>1077</td></tr></table>	T	L	B	R	1050	135	1136	211	T	L	B	R	1200	1000	1287	1077	<div>Date Taken 9/29/2017 10:14:15 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
T	L	B	R																
1050	135	1136	211																
T	L	B	R																
1200	1000	1287	1077																
 IMG_2090.JPG	0	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>964</td><td>99</td><td>1050</td><td>175</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1044</td><td>452</td><td>1131</td><td>529</td></tr></table>	T	L	B	R	964	99	1050	175	T	L	B	R	1044	452	1131	529	<div>Date Taken 9/29/2017 10:14:30 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
T	L	B	R																
964	99	1050	175																
T	L	B	R																
1044	452	1131	529																
 IMG_2091.JPG	0	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>958</td><td>78</td><td>1044</td><td>154</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>986</td><td>790</td><td>1073</td><td>867</td></tr></table>	T	L	B	R	958	78	1044	154	T	L	B	R	986	790	1073	867	<div>Date Taken 9/29/2017 10:14:45 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
T	L	B	R																
958	78	1044	154																
T	L	B	R																
986	790	1073	867																
 IMG_2092.JPG	0	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1027</td><td>68</td><td>1113</td><td>144</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1200</td><td>1000</td><td>1287</td><td>1077</td></tr></table>	T	L	B	R	1027	68	1113	144	T	L	B	R	1200	1000	1287	1077	<div>Date Taken 9/29/2017 10:15:00 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
T	L	B	R																
1027	68	1113	144																
T	L	B	R																
1200	1000	1287	1077																
 IMG_2093.JPG	0	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1039</td><td>68</td><td>1125</td><td>144</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1102</td><td>964</td><td>1189</td><td>1041</td></tr></table>	T	L	B	R	1039	68	1125	144	T	L	B	R	1102	964	1189	1041	<div>Date Taken 9/29/2017 10:15:15 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
T	L	B	R																
1039	68	1125	144																
T	L	B	R																
1102	964	1189	1041																
 IMG_2094.JPG	0	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1062</td><td>83</td><td>1148</td><td>159</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1200</td><td>1000</td><td>1287</td><td>1077</td></tr></table>	T	L	B	R	1062	83	1148	159	T	L	B	R	1200	1000	1287	1077	<div>Date Taken 9/29/2017 10:15:30 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
T	L	B	R																
1062	83	1148	159																
T	L	B	R																
1200	1000	1287	1077																
 IMG_2095.JPG	0	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1154</td><td>89</td><td>1240</td><td>165</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1200</td><td>1000</td><td>1287</td><td>1077</td></tr></table>	T	L	B	R	1154	89	1240	165	T	L	B	R	1200	1000	1287	1077	<div>Date Taken 9/29/2017 10:15:45 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
T	L	B	R																
1154	89	1240	165																
T	L	B	R																
1200	1000	1287	1077																
 IMG_2096.JPG	0	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1119</td><td>58</td><td>1205</td><td>134</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>1200</td><td>1000</td><td>1287</td><td>1077</td></tr></table>	T	L	B	R	1119	58	1205	134	T	L	B	R	1200	1000	1287	1077	<div>Date Taken 9/29/2017 10:16:00 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
T	L	B	R																
1119	58	1205	134																
T	L	B	R																
1200	1000	1287	1077																

VISIBLE EMISSION OBSERVATION FORM

Method Used Method 9		
Equipment Owner Areta Zouvas		
Facility Name Kirkland Mining Company		
EO Street Address 3737 Garden Ln.		
EO City San Diego	EO State CA	EO Zip 92106

Process C&S plant	Unit N/A	Operating Mode operating
Control Equipment None	Operating Mode N/A	

Describe Emission Point front-end loader feeding plant			
Height of Emiss. Pt. Start 89.99 End Same		Height of Emiss. Pt. Rel. to Observer Start 85.99 End Same	
Distance to Emiss. Pt. Start 113.49 End Same		Direction to Emiss. Pt. (Degrees) Start 309.62 End Same	

Vertical Angle to Obs. Pt. Start 30.93 End Same		Direction to Obs. Pt. Start 309.02 End Same	
Distance and Direction to Observation Point from Emission Point Start 1.2 / 184.65 End Same			

Describe Emissions Start lofting End Same	
Emission Color Start Dust End Same	Water Droplet Plume Attached: () Detached: () N/A: (X)

Describe Plume Background Start sky and mountains End Same			
Background Color Start Blue End Same		Sky Conditions Start Clear End Same	
Wind Speed Start 5 End Same		Wind Direction Start 290 End 270	
Ambient Temp. Start 80 End Same	Wet Bulb Temp. Start 41 End Same	RH Percent Start 23 End Same	



Longitude 112.41.19.045 W	Latitude 34.26.09.515 N	Declination
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Notes QC by SM16.

Form Number					Page Of				
Continued on VEO Form Number									
Observation Date 9/29/2017			Time Zone MST		Start Time 10:00:59		End Time 10:08:14		
Comments									
1	5	10	5	20					
2	25	10	20	10					
3	15	25	15	15	Avg. Opacity =				
4	10	10	0	10	15.417				
5	10	10	15	30	Opacity Standard =				
6	25	15	15	10	40 Percent				
7	5	10	20	15					
8	5	55							
9									
10									
11									
12									
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30									
31									
32									

Observers Name (Print) Rob Verville	
Observers Signature <i>Rob Verville</i>	Date 10/3/2017
Organization AZDEQ	
Certified By AZDEQ Quality	Date 10/3/2017

Source

Name: Kirkland Mining Company
Address: 7825 S. Iron Springs Rd.
City: Skull Valley
State: AZ
Zip: 86338
Phone:
Local ID:

Regulatory

Permit ID: 68023
Condition:
Regulatory Reference: GP for C&S

Process

Process: C&S plant
Unit: N/A
Operating Mode: operating

Complaint

Name:
Address:
City:
State: NA
Zip:

Equipment

Name: Plant feeder

Type of Inspection

Type of Inspection: Surveillance

Sun

Altitude: 40.7
Azimuth: 130.3
Data Source: Calculated

Map Information

Map Type: USGSDRG
Map Width: 502

Analysis

Averaging Type: Manual
Method: Method 9
Number of Images: 24

Analyst Name: Shawn Dolan

Affiliation: Virtual Technology LLC 05

Comments: Rob, I can not combine photos between observations. This one is measured by the drop the sky is good background but we need to float the background box more. Measured in a single place as possible.

Rolling High Count: 24
Seconds Between Images: 15
Who Created: DOCS II
Creation Date: 9/22/2011

Image	Opacity	Coordinates	Date Taken	Camera Information															
 IMG_2045.JPG	20	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>3002</td><td>2022</td><td>3088</td><td>2099</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2911</td><td>344</td><td>2997</td><td>420</td></tr></table>	T	L	B	R	3002	2022	3088	2099	T	L	B	R	2911	344	2997	420	<div>Date Taken 9/29/2017 10:02:29 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
T	L	B	R																
3002	2022	3088	2099																
T	L	B	R																
2911	344	2997	420																
 IMG_2046.JPG	10	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>3014</td><td>2054</td><td>3100</td><td>2131</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2980</td><td>396</td><td>3066</td><td>472</td></tr></table>	T	L	B	R	3014	2054	3100	2131	T	L	B	R	2980	396	3066	472	<div>Date Taken 9/29/2017 10:02:44 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
T	L	B	R																
3014	2054	3100	2131																
T	L	B	R																
2980	396	3066	472																
 IMG_2047.JPG	15	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2931</td><td>2108</td><td>3017</td><td>2180</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>3036</td><td>3093</td><td>3122</td><td>3273</td></tr></table>	T	L	B	R	2931	2108	3017	2180	T	L	B	R	3036	3093	3122	3273	<div>Date Taken 9/29/2017 10:02:59 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
T	L	B	R																
2931	2108	3017	2180																
T	L	B	R																
3036	3093	3122	3273																
 IMG_2048.JPG	25	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2991</td><td>2059</td><td>3077</td><td>2136</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2922</td><td>472</td><td>3008</td><td>548</td></tr></table>	T	L	B	R	2991	2059	3077	2136	T	L	B	R	2922	472	3008	548	<div>Date Taken 9/29/2017 10:03:14 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
T	L	B	R																
2991	2059	3077	2136																
T	L	B	R																
2922	472	3008	548																
 IMG_2049.JPG	15	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2990</td><td>2115</td><td>3076</td><td>2192</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2934</td><td>309</td><td>3020</td><td>385</td></tr></table>	T	L	B	R	2990	2115	3076	2192	T	L	B	R	2934	309	3020	385	<div>Date Taken 9/29/2017 10:03:29 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
T	L	B	R																
2990	2115	3076	2192																
T	L	B	R																
2934	309	3020	385																
 IMG_2050.JPG	15	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2996</td><td>2049</td><td>3082</td><td>2126</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2801</td><td>319</td><td>2887</td><td>395</td></tr></table>	T	L	B	R	2996	2049	3082	2126	T	L	B	R	2801	319	2887	395	<div>Date Taken 9/29/2017 10:03:44 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
T	L	B	R																
2996	2049	3082	2126																
T	L	B	R																
2801	319	2887	395																
 IMG_2051.JPG	10	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2990</td><td>2074</td><td>3076</td><td>2151</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2911</td><td>370</td><td>2997</td><td>446</td></tr></table>	T	L	B	R	2990	2074	3076	2151	T	L	B	R	2911	370	2997	446	<div>Date Taken 9/29/2017 10:03:59 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
T	L	B	R																
2990	2074	3076	2151																
T	L	B	R																
2911	370	2997	446																
 IMG_2052.JPG	10	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2985</td><td>2038</td><td>3071</td><td>2115</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2922</td><td>278</td><td>3008</td><td>354</td></tr></table>	T	L	B	R	2985	2038	3071	2115	T	L	B	R	2922	278	3008	354	<div>Date Taken 9/29/2017 10:04:14 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
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2985	2038	3071	2115																
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2922	278	3008	354																

Image	Opacity	Coordinates	Date Taken	Camera Information															
 IMG_2053.JPG	0	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>3008</td><td>2064</td><td>3093</td><td>2141</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>3020</td><td>3068</td><td>3106</td><td>3144</td></tr></table>	T	L	B	R	3008	2064	3093	2141	T	L	B	R	3020	3068	3106	3144	<div>Date Taken 9/29/2017 10:04:29 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
T	L	B	R																
3008	2064	3093	2141																
T	L	B	R																
3020	3068	3106	3144																
 IMG_2054.JPG	10	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2966</td><td>2052</td><td>3052</td><td>2129</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2933</td><td>523</td><td>3019</td><td>599</td></tr></table>	T	L	B	R	2966	2052	3052	2129	T	L	B	R	2933	523	3019	599	<div>Date Taken 9/29/2017 10:04:44 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
T	L	B	R																
2966	2052	3052	2129																
T	L	B	R																
2933	523	3019	599																
 IMG_2055.JPG	10	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2990</td><td>2002</td><td>3076</td><td>2079</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2921</td><td>492</td><td>3007</td><td>568</td></tr></table>	T	L	B	R	2990	2002	3076	2079	T	L	B	R	2921	492	3007	568	<div>Date Taken 9/29/2017 10:04:59 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
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T	L	B	R																
2921	492	3007	568																
 IMG_2056.JPG	10	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2951</td><td>1997</td><td>3037</td><td>2074</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2922</td><td>380</td><td>3007</td><td>456</td></tr></table>	T	L	B	R	2951	1997	3037	2074	T	L	B	R	2922	380	3007	456	<div>Date Taken 9/29/2017 10:05:14 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
T	L	B	R																
2951	1997	3037	2074																
T	L	B	R																
2922	380	3007	456																
 IMG_2057.JPG	15	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2962</td><td>1869</td><td>3048</td><td>1946</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2894</td><td>268</td><td>2980</td><td>344</td></tr></table>	T	L	B	R	2962	1869	3048	1946	T	L	B	R	2894	268	2980	344	<div>Date Taken 9/29/2017 10:05:29 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
T	L	B	R																
2962	1869	3048	1946																
T	L	B	R																
2894	268	2980	344																
 IMG_2058.JPG	30	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2996</td><td>1905</td><td>3082</td><td>1982</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2968</td><td>3202</td><td>3054</td><td>3278</td></tr></table>	T	L	B	R	2996	1905	3082	1982	T	L	B	R	2968	3202	3054	3278	<div>Date Taken 9/29/2017 10:05:44 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
T	L	B	R																
2996	1905	3082	1982																
T	L	B	R																
2968	3202	3054	3278																
 IMG_2059.JPG	25	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2962</td><td>1808</td><td>3048</td><td>1885</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2899</td><td>344</td><td>2985</td><td>420</td></tr></table>	T	L	B	R	2962	1808	3048	1885	T	L	B	R	2899	344	2985	420	<div>Date Taken 9/29/2017 10:05:59 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
T	L	B	R																
2962	1808	3048	1885																
T	L	B	R																
2899	344	2985	420																
 IMG_2060.JPG	15	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2944</td><td>1853</td><td>3030</td><td>1930</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2898</td><td>681</td><td>2984</td><td>757</td></tr></table>	T	L	B	R	2944	1853	3030	1930	T	L	B	R	2898	681	2984	757	<div>Date Taken 9/29/2017 10:06:14 AM</div> <div>Camera Mfg/Model Canon/Canon PowerShot SX60 HS</div> <div>Wind Direction W Wind Speed 5</div> <div>Temperature 80 Rel Humidity 23</div> <div>Wet Bulb Temp 41</div>
T	L	B	R																
2944	1853	3030	1930																
T	L	B	R																
2898	681	2984	757																

Image	Opacity	Coordinates	Date Taken	Camera Information															
 IMG_2061.JPG	15	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2985</td><td>1848</td><td>3071</td><td>1925</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2928</td><td>569</td><td>3014</td><td>645</td></tr></table>	T	L	B	R	2985	1848	3071	1925	T	L	B	R	2928	569	3014	645	<div>Date Taken</div> 9/29/2017 10:06:29 AM <div>Camera Mfg/Model</div> Canon/Canon PowerShot SX60 HS <div>Wind Direction</div> W <div>Wind Speed</div> 5 <div>Temperature</div> 80 <div>Rel Humidity</div> 23 <div>Wet Bulb Temp</div> 41
T	L	B	R																
2985	1848	3071	1925																
T	L	B	R																
2928	569	3014	645																
 IMG_2062.JPG	10	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2974</td><td>1828</td><td>3060</td><td>1905</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2910</td><td>365</td><td>2996</td><td>441</td></tr></table>	T	L	B	R	2974	1828	3060	1905	T	L	B	R	2910	365	2996	441	<div>Date Taken</div> 9/29/2017 10:06:44 AM <div>Camera Mfg/Model</div> Canon/Canon PowerShot SX60 HS <div>Wind Direction</div> W <div>Wind Speed</div> 5 <div>Temperature</div> 80 <div>Rel Humidity</div> 23 <div>Wet Bulb Temp</div> 41
T	L	B	R																
2974	1828	3060	1905																
T	L	B	R																
2910	365	2996	441																
 IMG_2063.JPG	5	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2887</td><td>1838</td><td>2973</td><td>1915</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>3008</td><td>2996</td><td>3094</td><td>3072</td></tr></table>	T	L	B	R	2887	1838	2973	1915	T	L	B	R	3008	2996	3094	3072	<div>Date Taken</div> 9/29/2017 10:06:59 AM <div>Camera Mfg/Model</div> Canon/Canon PowerShot SX60 HS <div>Wind Direction</div> W <div>Wind Speed</div> 5 <div>Temperature</div> 80 <div>Rel Humidity</div> 23 <div>Wet Bulb Temp</div> 41
T	L	B	R																
2887	1838	2973	1915																
T	L	B	R																
3008	2996	3094	3072																
 IMG_2064.JPG	10	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2979</td><td>1915</td><td>3065</td><td>1992</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2893</td><td>488</td><td>2979</td><td>564</td></tr></table>	T	L	B	R	2979	1915	3065	1992	T	L	B	R	2893	488	2979	564	<div>Date Taken</div> 9/29/2017 10:07:14 AM <div>Camera Mfg/Model</div> Canon/Canon PowerShot SX60 HS <div>Wind Direction</div> W <div>Wind Speed</div> 5 <div>Temperature</div> 80 <div>Rel Humidity</div> 23 <div>Wet Bulb Temp</div> 41
T	L	B	R																
2979	1915	3065	1992																
T	L	B	R																
2893	488	2979	564																
 IMG_2065.JPG	20	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2979</td><td>1874</td><td>3065</td><td>1951</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2870</td><td>620</td><td>2956</td><td>696</td></tr></table>	T	L	B	R	2979	1874	3065	1951	T	L	B	R	2870	620	2956	696	<div>Date Taken</div> 9/29/2017 10:07:29 AM <div>Camera Mfg/Model</div> Canon/Canon PowerShot SX60 HS <div>Wind Direction</div> W <div>Wind Speed</div> 5 <div>Temperature</div> 80 <div>Rel Humidity</div> 23 <div>Wet Bulb Temp</div> 41
T	L	B	R																
2979	1874	3065	1951																
T	L	B	R																
2870	620	2956	696																
 IMG_2066.JPG	15	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2956</td><td>1859</td><td>3042</td><td>1936</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2864</td><td>621</td><td>2950</td><td>697</td></tr></table>	T	L	B	R	2956	1859	3042	1936	T	L	B	R	2864	621	2950	697	<div>Date Taken</div> 9/29/2017 10:07:44 AM <div>Camera Mfg/Model</div> Canon/Canon PowerShot SX60 HS <div>Wind Direction</div> W <div>Wind Speed</div> 5 <div>Temperature</div> 80 <div>Rel Humidity</div> 23 <div>Wet Bulb Temp</div> 41
T	L	B	R																
2956	1859	3042	1936																
T	L	B	R																
2864	621	2950	697																
 IMG_2067.JPG	5	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2951</td><td>1859</td><td>3037</td><td>1936</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2899</td><td>692</td><td>2985</td><td>768</td></tr></table>	T	L	B	R	2951	1859	3037	1936	T	L	B	R	2899	692	2985	768	<div>Date Taken</div> 9/29/2017 10:07:59 AM <div>Camera Mfg/Model</div> Canon/Canon PowerShot SX60 HS <div>Wind Direction</div> W <div>Wind Speed</div> 5 <div>Temperature</div> 80 <div>Rel Humidity</div> 23 <div>Wet Bulb Temp</div> 41
T	L	B	R																
2951	1859	3037	1936																
T	L	B	R																
2899	692	2985	768																
 IMG_2068.JPG	55	<div>Foreground Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2910</td><td>1864</td><td>2996</td><td>1941</td></tr></table> <div>Background Coordinates</div> <table><tr><td>T</td><td>L</td><td>B</td><td>R</td></tr><tr><td>2991</td><td>3381</td><td>3077</td><td>3457</td></tr></table>	T	L	B	R	2910	1864	2996	1941	T	L	B	R	2991	3381	3077	3457	<div>Date Taken</div> 9/29/2017 10:08:14 AM <div>Camera Mfg/Model</div> Canon/Canon PowerShot SX60 HS <div>Wind Direction</div> W <div>Wind Speed</div> 5 <div>Temperature</div> 80 <div>Rel Humidity</div> 23 <div>Wet Bulb Temp</div> 41
T	L	B	R																
2910	1864	2996	1941																
T	L	B	R																
2991	3381	3077	3457																